Open Source Used In Identity Services Engine 3.0

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1.661 **jcifs-ng** 2.1.3
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1.662 **xmlsec-java** java-1.8.0-openjdk-headless-1.8.0.242.b0
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1.663 **lsscsi** 0.27 6.el7
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1.665 **toplink** 10.1.3.5.0.090715
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1.666 **icu** 50.1.2-17.el7
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1.667 **mksh** 46 8.el7
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1.668 **elfutils** 0.172 2.el7
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1.669 **commons-net** 3.3
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1.670 **javax-websocket-api** 1.1
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1.672 **rhn-check** 2.0.2 24.el7
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1.674 **cxf-rt-rs-client** 3.3.5
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1.5 theora 1.1.1 8.el7

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1.10 ietf-yang-types 2010.09.24.7
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    namespace "urn:ietf:params:xml:ns:yang:ietf-yang-types";
    prefix "yang";

    organization
    "IETF NETMOD (NETCONF Data Modeling Language) Working Group";

    contact
description
"This module contains a collection of generally useful derived
YANG data types.

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the RFC itself for full legal notices.");

revision 2010-09-24 {
  description
    "Initial revision.";
  reference
    "RFC 6021: Common YANG Data Types";
}

/*** collection of counter and gauge types ***/

typedef counter32 {
  type uint32;
  description
    "The counter32 type represents a non-negative integer
    that monotonically increases until it reaches a
    maximum value of 2^32-1 (4294967295 decimal), when it
    wraps around and starts increasing again from zero.

    Counters have no defined 'initial' value, and thus, a
    single value of a counter has (in general) no information
    content. Discontinuities in the monotonically increasing
value normally occur at re-initialization of the management system, and at other times as specified in the description of a schema node using this type. If such other times can occur, for example, the creation of a schema node of type counter32 at times other than re-initialization, then a corresponding schema node should be defined, with an appropriate type, to indicate the last discontinuity.

The counter32 type should not be used for configuration schema nodes. A default statement SHOULD NOT be used in combination with the type counter32.

In the value set and its semantics, this type is equivalent to the Counter32 type of the SMIv2."

reference
"RFC 2578: Structure of Management Information Version 2 (SMIv2)"

}

typedef zero-based-counter32 {
type yang:counter32;
default "0";
description
"The zero-based-counter32 type represents a counter32 that has the defined 'initial' value zero.

A schema node of this type will be set to zero (0) on creation and will thereafter increase monotonically until it reaches a maximum value of $2^{32}-1$ (4294967295 decimal), when it wraps around and starts increasing again from zero.

Provided that an application discovers a new schema node of this type within the minimum time to wrap, it can use the 'initial' value as a delta. It is important for a management station to be aware of this minimum time and the actual time between polls, and to discard data if the actual time is too long or there is no defined minimum time.

In the value set and its semantics, this type is equivalent to the ZeroBasedCounter32 textual convention of the SMIv2."

reference
"RFC 4502: Remote Network Monitoring Management Information Base Version 2"

}

typedef counter64 {
type uint64;
description
"The counter64 type represents a non-negative integer that monotonically increases until it reaches a maximum value of 2^64-1 (18446744073709551615 decimal), when it wraps around and starts increasing again from zero.

Counters have no defined 'initial' value, and thus, a single value of a counter has (in general) no information content. Discontinuities in the monotonically increasing value normally occur at re-initialization of the management system, and at other times as specified in the description of a schema node using this type. If such other times can occur, for example, the creation of a schema node of type counter64 at times other than re-initialization, then a corresponding schema node should be defined, with an appropriate type, to indicate the last discontinuity.

The counter64 type should not be used for configuration schema nodes. A default statement SHOULD NOT be used in combination with the type counter64.

In the value set and its semantics, this type is equivalent to the Counter64 type of the SMIv2.";

reference
"RFC 2578: Structure of Management Information Version 2 (SMIv2)";

typedef zero-based-counter64 {
    type yang:counter64;
    default "0";
    description "The zero-based-counter64 type represents a counter64 that has the defined 'initial' value zero.

    A schema node of this type will be set to zero (0) on creation and will thereafter increase monotonically until it reaches a maximum value of 2^64-1 (18446744073709551615 decimal), when it wraps around and starts increasing again from zero.

    Provided that an application discovers a new schema node of this type within the minimum time to wrap, it can use the 'initial' value as a delta. It is important for a management station to be aware of this minimum time and the actual time between polls, and to discard data if the actual time is too long or there is no defined minimum time.

    In the value set and its semantics, this type is equivalent to the ZeroBasedCounter64 textual convention of the SMIv2.";
typedef gauge32 {
    type uint32;
    description
    "The gauge32 type represents a non-negative integer, which
    may increase or decrease, but shall never exceed a maximum
    value, nor fall below a minimum value. The maximum value
    cannot be greater than 2^32-1 (4294967295 decimal), and
    the minimum value cannot be smaller than 0. The value of
    a gauge32 has its maximum value whenever the information
    being modeled is greater than or equal to its maximum
    value, and has its minimum value whenever the information
    being modeled is smaller than or equal to its minimum value.
    If the information being modeled subsequently decreases
    below (increases above) the maximum (minimum) value, the
    gauge32 also decreases (increases).

    In the value set and its semantics, this type is equivalent
    to the Gauge32 type of the SMIv2.";
    reference
    "RFC 2578: Structure of Management Information Version 2 (SMIv2)";
} }

typedef gauge64 {
    type uint64;
    description
    "The gauge64 type represents a non-negative integer, which
    may increase or decrease, but shall never exceed a maximum
    value, nor fall below a minimum value. The maximum value
    cannot be greater than 2^64-1 (18446744073709551615), and
    the minimum value cannot be smaller than 0. The value of
    a gauge64 has its maximum value whenever the information
    being modeled is greater than or equal to its maximum
    value, and has its minimum value whenever the information
    being modeled is smaller than or equal to its minimum value.
    If the information being modeled subsequently decreases
    below (increases above) the maximum (minimum) value, the
    gauge64 also decreases (increases).

    In the value set and its semantics, this type is equivalent
    to the CounterBasedGauge64 SMIv2 textual convention defined
    in RFC 2856";
    reference
    "RFC 2856: Textual Conventions for Additional High Capacity
typedef object-identifier {
    type string {
        pattern '(([0-1](\.[1-3]?[0-9])|(2\.(0|[1-9]\d*))))
            + '(\.(0|[1-9]\d*)))';
    }
}

description
"The object-identifier type represents administratively
assigned names in a registration-hierarchical-name tree.

Values of this type are denoted as a sequence of numerical
non-negative sub-identifier values. Each sub-identifier
value MUST NOT exceed 2^32-1 (4294967295). Sub-identifiers
are separated by single dots and without any intermediate
whitespace.

The ASN.1 standard restricts the value space of the first
sub-identifier to 0, 1, or 2. Furthermore, the value space
of the second sub-identifier is restricted to the range
0 to 39 if the first sub-identifier is 0 or 1. Finally,
the ASN.1 standard requires that an object identifier
has always at least two sub-identifier. The pattern
captures these restrictions.

Although the number of sub-identifiers is not limited,
module designers should realize that there may be
implementations that stick with the SMIv2 limit of 128
sub-identifiers.

This type is a superset of the SMIv2 OBJECT IDENTIFIER type
since it is not restricted to 128 sub-identifiers. Hence,
this type SHOULD NOT be used to represent the SMIv2 OBJECT
IDENTIFIER type, the object-identifier-128 type SHOULD be
used instead.";
typedef object-identifier-128 {
    type object-identifier {
        pattern 'd*\.d*){1,127}';
    }
    description
    "This type represents object-identifiers restricted to 128 sub-identifiers.

    In the value set and its semantics, this type is equivalent to the OBJECT IDENTIFIER type of the SMIv2."
    reference
    "RFC 2578: Structure of Management Information Version 2 (SMIv2)"
}

/*** collection of date and time related types ***/

typedef date-and-time {
    type string {
        pattern '\d{4}-\d{2}-\d{2}T\d{2}:\d{2}(:\d{2})?\(Z|\[+-\]\d{2}(:\d{2})\)?
        + '(Z|\[+-\]\d{2}(:\d{2})\)?';
    }
    description
    "The date-and-time type is a profile of the ISO 8601 standard for representation of dates and times using the Gregorian calendar. The profile is defined by the date-time production in Section 5.6 of RFC 3339.

    The date-and-time type is compatible with the dateTime XML schema type with the following notable exceptions:

    (a) The date-and-time type does not allow negative years.

    (b) The date-and-time time-offset -00:00 indicates an unknown time zone (see RFC 3339) while -00:00 and +00:00 and Z all represent the same time zone in dateTime.

    (c) The canonical format (see below) of data-and-time values differs from the canonical format used by the dateTime XML schema type, which requires all times to be in UTC using the time-offset 'Z'.

    This type is not equivalent to the DateAndTime textual convention of the SMIv2 since RFC 3339 uses a different separator between full-date and full-time and provides higher resolution of time-secfrac.

    The canonical format for date-and-time values with a known time zone uses a numeric time zone offset that is calculated using
the device's configured known offset to UTC time. A change of the device's offset to UTC time will cause date-and-time values to change accordingly. Such changes might happen periodically in case a server follows automatically daylight saving time (DST) time zone offset changes. The canonical format for date-and-time values with an unknown time zone (usually referring to the notion of local time) uses the time-offset -00:00.";

reference

"RFC 3339: Date and Time on the Internet: Timestamps
RFC 2579: Textual Conventions for SMIv2

} typedef timeticks {
  type uint32;
  description
  "The timeticks type represents a non-negative integer that represents the time, modulo 2^32 (4294967296 decimal), in hundredths of a second between two epochs. When a schema node is defined that uses this type, the description of the schema node identifies both of the reference epochs.

  In the value set and its semantics, this type is equivalent to the TimeTicks type of the SMIv2.";
  reference

  "RFC 2578: Structure of Management Information Version 2 (SMIv2)"
};

typedef timestamp {
  type yang:timeticks;
  description
  "The timestamp type represents the value of an associated timeticks schema node at which a specific occurrence happened. The specific occurrence must be defined in the description of any schema node defined using this type. When the specific occurrence occurred prior to the last time the associated timeticks attribute was zero, then the timestamp value is zero. Note that this requires all timestamp values to be reset to zero when the value of the associated timeticks attribute reaches 497+ days and wraps around to zero.

  The associated timeticks schema node must be specified in the description of any schema node using this type.

  In the value set and its semantics, this type is equivalent to the TimeStamp textual convention of the SMIv2.";
  reference

  "RFC 2579: Textual Conventions for SMIv2";
typedef phys-address {
  type string {
    pattern '[0-9a-fA-F]{2}(:[0-9a-fA-F]{2})*';
  }
  description
  "Represents media- or physical-level addresses represented
  as a sequence octets, each octet represented by two hexadecimal
  numbers. Octets are separated by colons. The canonical
  representation uses lowercase characters.

  In the value set and its semantics, this type is equivalent
to the PhysAddress textual convention of the SMIv2.";
  reference
  "RFC 2579: Textual Conventions for SMIv2";
}

typedef mac-address {
  type string {
    pattern '[0-9a-fA-F]{2}(:[0-9a-fA-F]{2}){5}';
  }
  description
  "The mac-address type represents an IEEE 802 MAC address.
The canonical representation uses lowercase characters.

  In the value set and its semantics, this type is equivalent
to the MacAddress textual convention of the SMIv2.";
  reference
  "IEEE 802: IEEE Standard for Local and Metropolitan Area
      Networks: Overview and Architecture
    RFC 2579: Textual Conventions for SMIv2";
}

/*** collection of XML specific types ***/

typedef xpath1.0 {
  type string;
  description
  "This type represents an XPATH 1.0 expression.

  When a schema node is defined that uses this type, the
description of the schema node MUST specify the XPath
context in which the XPath expression is evaluated.";
  reference
  "XPATH: XML Path Language (XPath) Version 1.0";
}
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include/GL/wglxext.h :

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c9f2bb5bb6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

  Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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1.21 python-iniparse 0.4-9.el7

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

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

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

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

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1.23 grub-common 2.02-0.76.el7

1.23.1 Available under license:

From 00000000000000000000000000000000 Mon Sep 17 00:00:00 2001
From: Vladimir Serbinenko <phcoder@gmail.com>
Date: Fri, 20 Mar 2015 11:13:58 +0100
Subject: [PATCH] cacheinfo: Add missing license information.

---

grub-core/commands/cacheinfo.c | 2 ++
1 file changed, 2 insertions(+)

diff --git a/grub-core/commands/cacheinfo.c b/grub-core/commands/cacheinfo.c
index ead6ff82cfc..d34a346964c 100644
--- a/grub-core/commands/cacheinfo.c
+++ b/grub-core/commands/cacheinfo.c
@@ -23,6 +23,8 @@
 #include <grub/i18n.h>
 #include <grub/disk.h>

+GRUB_MOD_LICENSE ("GPLv3+");
+
static grub_err_t
grub_rescue_cmd_info (struct grub_command *cmd __attribute__ ((unused)),
    int argc __attribute__ ((unused)),
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From 0000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
From: dann frazier <dann.frazier@canonical.com>
Date: Thu, 21 May 2015 10:28:48 -0600
Subject: [PATCH] arm64/setjmp: Add missing license macro

Including the setjmp module in an arm64-efi image will cause it to immediately exit with an "incompatible license" error.

The source file includes a GPLv3+ boilerplate, so fix this by declaring a GPLv3+ license using the GRUB_MOD_LICENSE macro.

Signed-off-by: dann frazier <dann.frazier@canonical.com>
---
grub-core/lib/arm64/setjmp.S | 2 ++
1 file changed, 2 insertions(+)

diff --git a/grub-core/lib/arm64/setjmp.S b/grub-core/lib/arm64/setjmp.S
index adaafe40f71..eabfd9b296 100644
--- a/grub-core/lib/arm64/setjmp.S
+++ b/grub-core/lib/arm64/setjmp.S
@@ -17,8 +17,10 @@
 /*
 
 #include <grub/symbol.h>
+#include <grub/dl.h>

 .file"setjmp.S"
 +GRUB_MOD_LICENSE "GPLv3+
 .text

 /*

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 Version 3, 29 June 2007

 Modified.
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From 0000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
From: Stephane Rochoy <sheda>
Date: Sun, 22 Jun 2014 01:35:52 +0200
Subject: [PATCH] * grub-core/loader/i386/bsd.c (grub_netbsd_boot): Pass pointer to EFI system table.

---
grub-core/loader/i386/bsd.c | 8 ++++++++
include/grub/i386/netbsd_bootinfo.h | 7 +++++++
ChangeLog | 5 ++
3 files changed, 20 insertions(+)
diff --git a/grub-core/loader/i386/bsd.c b/grub-core/loader/i386/bsd.c
index 41ef9109ee1..8f691e0e2d1 100644
--- a/grub-core/loader/i386/bsd.c
+++ b/grub-core/loader/i386/bsd.c
@@ -1145,6 +1145,14 @@ grub_netbsd_boot (void)
     if (err)
         return err;

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#ifdef GRUB_MACHINE_EFI
  err = grub_bsd_add_meta (NETBSD_BTINFO_EFI,
    &grub_efi_system_table,
    sizeof (grub_efi_system_table));
  if (err)
    return err;
#endif

{ struct bsd_tag *tag;
  tag_buf_len = 0;

diff --git a/include/grub/i386/netbsd_bootinfo.h b/include/grub/i386/netbsd_bootinfo.h
index e48c19b4089..9b4f4604103 100644
--- a/include/grub/i386/netbsd_bootinfo.h
+++ b/include/grub/i386/netbsd_bootinfo.h
@@ -58,6 +58,8 @@
#define NETBSD_BTINFO_BOOTWEDGE		10
#define NETBSD_BTINFO_MODULES		11
#define NETBSD_BTINFO_FRAMEBUF		12
+#define NETBSD_BTINFO_USERCONFCOMMANDS  13
+#define NETBSD_BTINFO_EFI	        14

struct grub_netbsd_bootinfo
{
  @ @ -146,4 +148,9 @@ struct grub_netbsd_btinfo_framebuf

#define GRUB_NETBSD_MAX_ROOTDEVICE_LEN 16

+struct grub_netbsd_btinfo_efi
+{ void *pa_systbl; /* Physical address of the EFI System Table */
+};
+
#endif
diff --git a/ChangeLog b/ChangeLog
index abf8f4b2716..0cdd095a498 100644
--- a/ChangeLog
+++ b/ChangeLog
@@ -1,3 +1,8 @@
2014-06-21  Stephane Rochoy <sheda>
+  * grub-core/loader/i386/bsd.c (grub_netbsd_boot): Pass pointer to
+    EFI system table.
+  2014-06-21  Stephane Rochoy <sheda>

* grub-core/commands/efi/lsefisystab.c (grub_cmd_lsefisystab): Show
1.24 jdk 1.8.0u211

1.24.1 Available under license:

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Mon Aug 17 10:11:49 PDT 2020 Martin Fujitani <martinf@cisco.com>

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1.31 tcp-wrappers 7.6 77.el7

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

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

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a “work that uses the Library” with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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1.33 libbasicobjects 0.1.1 32.el7

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1.35 gunit 3.3

1.36 python-magic 5.11 35.el7

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1.37 cyrus-sasl-lib 2.1.26 23.el7
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1.38 rhnsd 5.0.13 10.el7

1.39 h2 1.4.196

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File:  Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.41 tcp-dump 4.9.2 4.el7_7.1

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1.42 wpa-supplicant 2.6-12.el7

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1.43 libaio 0.3.109-13.el7

1.44 pciutils 3.5.1-3.el7

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1.45 icu 57
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## Commands to generate dependency files

```
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)
```

## Flags for position independent code

```
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBXXCFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPI
```

## Additional flags when building libraries and with threads

```
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =
```

## Compiler switch to embed a runtime search path

```
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,
```

## Compiler switch to embed a library name

```
LD_SOSONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))
```

## Shared library options

```
LD_SOOPTIONS=-Wl,-Bsymbolic
```

## Shared object suffix

```
SO = so
```

## Non-shared intermediate object suffix

```
STATIC_O = ao
```

## Compilation rules

```
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
```

## Dependency rules

```
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed 's/([^\n]*\n)*\n}/[^A\n].o \(.*\)o \(:/g\n} > $@; \
[ -s $@ ] || rm -f $@’
```
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1.46 device-mapper-persistent-data 0.7.3 3.el7

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The End
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1.52 libasyncns vmware-tools-9.10.0-1

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>>> libxdr-openbsd-4.3
>>> pixman-0.11.6
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>>> vmci-9.6.1.0
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>>> atk-1.22.0
>>> cairomm-1.6.0
>>> glib-2.16.4
>>> glibmm-2.16.4
>>> gtk+-2.12.11
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>>> boost-1.47.0
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>>> freebsd-1.72
>>> gotourl function by stuart patterson-none
>>> icu-data-4.4-1
>>> icu4c-4.4.1
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>>> libxdr-openbsd-4.3
>>> libxml2-2.6.30
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>>> zip-2.32
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>>> gettext-0.14.6
>>> pvscsi-none
>>> vmci-9.6.1.0
>>> vmhgfs-none
>>> vmxnet-none
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>>> vssock-none

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>>> glibmm-2.22.1
>>> glibmm-2.22.1-3
>>> libsigc++-2.2.11

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>>> glib-2.16.4
>>> glib-2.22.4-3
>>> iconv-1.9.2
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>>> fontconfig-2.6.0
>>> freebsd-6.3
>>> freetype-2.3.7
>>> freetype-2.4.10-1
>>> libdnet-1.11
>>> libdnet-1.11-1
>>> libffi-3.0.9
>>> libpng-1.2.50
>>> libview-0.7.0
>>> libxdr-openbsd-4.3
>>> libxml2-2.8.0-1
>>> pscsc-lite-1.4.4
>>> pixman-0.11.6
>>> pixman-0.21.6
>>> protobuf-2.3.0
>>> uriparser-0.7.0
>>> xorg-7.3
>>> zip-2.32
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>>> xerces-c++-3.1.1
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>>> gnome-menus-2.30.2
>>> libfuse-2.5.3
>>> libgtop-2.14.9
>>> pvscsi-1.0.0
>>> pvscsi-none
>>> vmblock-1.0.0
>>> vmblock-none
>>> vmci-1.0.0
>>> vmci-9.6.1.0
>>> vmhgfhs-1.0.0
>>> vmhgfhs-none
>>> vmmemctl-1.0.0
>>> vmsync-none
>>> vmxnet-1.0.0
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>>> cairo-1.10.2
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>>> glibmm-2.24.0
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>>> atk-1.22.0
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>>> glib-2.16.4
>>> glib-2.24.2-1
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>>> glibmm-2.16.4
>>> gtk+-2.12.11
>>> gtk+-2.20.0
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>>> librsvg-2.16.0
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PART 8. VMWARE TOOLS FOR FREEBSD

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>>> vmxnet-none
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>>> libmspack-0.0.20040308alpha

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3. General Rules of Conduct
Your use of the Services is subject to all applicable local, state, national and international laws and regulations, and you agree not to violate such laws and regulations. In addition, you agree that:

- you will not interfere with another member's use and enjoyment of the Services; you will not interfere with or disrupt the security measures of the Services; you will not interfere with or disrupt networks connected to the Services, and will comply with all regulations, policies and procedures of such networks; and
- you will comply with United States law regarding the transmission of technical data exported from the United States.

- you will not use the Services to send or result in the transmission of junk e-mail, chain letters, duplicative or unsolicited messages, or so-called "spamming"; harm minors in any way; promote or generate revenue for any business or commercial purposes, whether or not for a charge or through linking with any other web services or pages, unless authorized by UBM LLC; impersonate any person or entity; intentionally or unintentionally violate any applicable local, state, national or international law; "stalk" or otherwise harass another;
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7. Directories and Other Membership Listings
Some of our Services allow users to make some of their personal information (including, but not limited to, name, company affiliation and job title) available to other visitors as part of a membership directory or other listing for that Service. Please remember: If you do not want certain information to be available to other Service users, you should not include it in any membership directory listing. As with all other content on the Services, we reserve the right to refuse (or remove) listings in our sole discretion, and without prior notice, if we determine that they are inaccurate, were posted without authorization, or otherwise violate these TOS.

8. Promotions
Some of our Services may from time to time conduct promotions, including, but not limited to, auctions, contests and sweepstakes ("Promotions"). Each Promotion will have additional terms, conditions and rules which will be posted or otherwise made available to you and, for purposes of each Promotion in which you participate, will be deemed incorporated by reference into these TOS (and therefore a part of your agreement with UBM LLC).

9. Fee-Based Services
Some of our Services require that you to pay a fee to access or use such Service, as described in the specific conditions included where those Services are offered. You agree to pay all fees and charges that you incur. Unless otherwise noted, all currency references are in U.S. dollars. We may, upon notice if required by applicable laws, at any time change the amount of, or basis for determining, any fee or charge, or institute new fees or charges. All fees and charges are payable in accordance with payment terms in effect at the time the fee or charge becomes payable.

10. Registrations Obligations
Some of our Services require that you register with that Service in order to access or use it. If such registration is required, you agree that you will provide accurate information (such as your real name and a valid e-mail address) and will update your relevant information if it becomes outdated. If you provide any information that is, or that UBM LLC in its reasonable discretion determines may be, untrue, inaccurate, not current or incomplete, UBM LLC has the right, without prior notice, to suspend or terminate your account and refuse any and all current or future use of the Services (or any portion thereof). For more detailed information about how we treat the registration information you provide to us, please see our Privacy Notice, which is incorporated by reference into these TOS (and therefore a part of your agreement with us).

11. Passwords and Other Security Issues
If we issue you a password, you agree to help protect your information by guarding that password, and by changing it as soon as possible if you believe its security has been compromised. If UBM LLC allows you to choose a username and you select, in UBM LLC’s sole discretion, one that is obscene, indecent, abusive or which is otherwise
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13. Service Deactivation or Termination
We have the right, but not the obligation, to take any of the following actions in our sole discretion at any time and for any reason without giving you any prior notice:

Restrict, suspend or terminate your access to all or any part of our Services;
Refuse, move or remove for any reason any material that you submit on or through the Services;
Refuse, move, or remove any content that is available on or through the Services;
Deactivate or delete your accounts and all related information and files in your account;
Establish general practices and limits concerning use of the Services
We may take any of the above actions for any legitimate business reason, as determined by UBM LLC in its sole discretion, including, but not be limited to, (a) breaches or violations of the TOS or other incorporated agreements or guidelines, (b) requests by law enforcement or other government agencies, (c) a request by you, (d) discontinuance or material modification to the Services (or any part thereof), and (e) unexpected technical or security issues or problems. You agree that we will not be liable to you or any third party for taking any of these actions.

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You hereby agree to indemnify, defend and hold UBM LLC, its subsidiaries, parent corporation and affiliates, and all of their respective officers, directors, owners, employees, agents, licensors, representatives, licensors and suppliers (collectively, the "UBM LLC Parties"), harmless from and against any and all liability, losses, expenses, damages and costs (including attorneys’ fees), incurred by any UBM LLC Party in connection with any claim arising out of your use of the Services, any use or alleged use of your accounts or your passwords by any person, whether or not authorized by you, the content you submit, post, transmit or make available through the Services, your violation of these TOS, your connection to the Services, or your violation of the rights of any other person or entity.

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Identify the material or link you claim is infringing and provide a description of where the infringing work is located on our Internet sites.

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Provide your full legal name and your electronic or physical signature.

Deliver this Notice, with all items completed, to our Designated Copyright Agent:
By mail:

Joshua Blank
240 W35th St., 8th Floor
New York, NY 10001

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Statute of Limitations. You agree that regardless of any statute or law to the contrary, any claim or cause of action arising out of or related to use of the Service or the TOS must be filed within one (1) year after such claim or cause of action arose or be forever barred.

18. Violations

We also ask that you bring Service problems to our attention, but California residents may also choose to contact the Complaint Assistance Unit of the Division of Consumer Services of the Department of Consumer Affairs, at 400 R Street, Sacramento, California 95814 or (800) 952-5210.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

------------------ SECTION 3: GNU Library General Public License, V2.0 ----------------

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

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Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

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

Preamble

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

This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any
other libraries whose authors decide to use it. You can use it for
your libraries, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if
you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
with the library, after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright
the library, and (2) offer you this license which gives you legal
permission to copy, distribute and/or modify the library.

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

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

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

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

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

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

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

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

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)
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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

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

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

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
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5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

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

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

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

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

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

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

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

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

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
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facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
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Additional -

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File: PSReadLine

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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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Additional -
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File: PSReadLine
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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PowerShell 6.0

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1.57 tftp-hpa 5.2

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*
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*
* Much of the complexity here has to do with supporting output suspension.
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*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYlw4/libjpeg-turbo-1.2.90/jchuff.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmrgext.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains code for merged upsampling/color conversion.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYlw4/libjpeg-turbo-1.2.90/jdmrgext.c
No license file was found, but licenses were detected in source scan.

/*
 * jdatadst-tj.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2012 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains compression data destination routines for the case of
 * emitting JPEG data to memory or to a file (or any stdio stream).
 * While these routines are sufficient for most applications,
* some will want to use a different destination manager.
* IMPORTANT: we assume that fwrite() will correctly transcribe an array of
* JOCTETs into 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYlW4/libjpeg-turbo-1.2.90/jdatadst-tj.c
No license file was found, but licenses were detected in source scan.

; ; jdatadst-tj.c - private declarations for forward & reverse DCT subsystems
; ; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; ; Based on
; ; x86 SIMD extension for IJG JPEG library
; ; Copyright (C) 1999-2006, MIYASAKA Masaru.
; ; For conditions of distribution and use, see copyright notice in jsimdext.inc
; ; [TAB8]

; Each IDCT routine is responsible for range-limiting its results and
; converting them to unsigned form (0..MAXJSAMPLE). The raw outputs could
; be quite far out of range if the input data is corrupt, so a bulletproof
; range-limiting step is required. We use a mask-and-table-lookup method
; to do the combined operations quickly.
;
%define RANGE_MASK  (MAXJSAMPLE * 4 + 3)  ; 2 bits wider than legal samples

%define ROW(n,b,s)((b)+(n)*(s))
%define COL(n,b,s)((b)+(n)*(s)*DCTSIZE)

%define DWBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_DWORD)
%define MMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_MMWORD)
%define XMMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_XMMWORD)

; -----------------------------------------------------------------------------

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYlW4/libjpeg-turbo-1.2.90/simd/jdct.inc
No license file was found, but licenses were detected in source scan.

; ; jcolsamp.inc - private declarations for color conversion & up/downsampling
; ;
; pseudo-resisters to make ordering of RGB configurable
;
%if RGB_RED == 0
%define mmA mm0
%define mmB mm1
%define xmmA xmm0
%define xmmB xmm1
%elif RGB_GREEN == 0
%define mmA mm2
%define mmB mm3
%define xmmA xmm2
%define xmmB xmm3
%elif RGB_BLUE == 0
%define mmA mm4
%define mmB mm5
%define xmmA xmm4
%define xmmB xmm5
%else
%define mmA mm6
%define mmB mm7
%define xmmA xmm6
%define xmmB xmm7
%endif

%if RGB_RED == 1
%define mmC mm0
%define mmD mm1
%define xmmC xmm0
%define xmmD xmm1
%elif RGB_GREEN == 1
%define mmC mm2
%define mmD mm3
%define xmmC xmm2
%define xmmD xmm3
%elif RGB_BLUE == 1
%define mmC mm4
%define mmD mm5
%define xmmC xmm4
%define xmmD xmm5
%else
%define mmC mm6
%define mmD mm7
%define xmmC xmm6
%define xmmD xmm7
%endif

%if RGB_RED == 2
%define mmE mm0
%define mmF mm1
%define xmmE xmm0
%define xmmF xmm1
%elif RGB_GREEN == 2
%define mmE mm2
%define mmF mm3
%define xmmE xmm2
%define xmmF xmm3
%elif RGB_BLUE == 2
%define mmE mm4
%define mmF mm5
%define xmmE xmm4
%define xmmF xmm5
%else
%define mmE mm6
%define mmF mm7
%define xmmE xmm6
%define xmmF xmm7
%endif

%if RGB_RED == 3
%define mmG mm0
%define mmH mm1
%define xmmG xmm0
%define xmmH xmm1
%elif RGB_GREEN == 3
%define mmG mm2
%define mmH mm3
%define xmmG xmm2
%define xmmH xmm3
%elif RGB_BLUE == 3
%define mmG mm4
%define mmH mm5
%define xmmG xmm4
%define xmmH xmm5
%else
%define mmG mm6

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%define mmH mm7
%define xmmG xmm6
%define xmmH xmm7
%endif

; ---------------------------------------------------------------------

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90/simd/jcolsamp.inc
No license file was found, but licenses were detected in source scan.

/*/  
* jcparam.c
  
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
  * Copyright (C) 2009-2011, D. R. Commander.
  * For conditions of distribution and use, see the accompanying README file.
  * This file is optional default-setting code for the JPEG compressor.
  * Applications do not have to use this file, but those that don't use it
  * must know a lot more about the innards of the JPEG code.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90/jcparam.c
No license file was found, but licenses were detected in source scan.

/*/  
* jidctflt.c
  
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
  
* This file contains a floating-point implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
  
* This implementation should be more accurate than either of the integer
* IDCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.
A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
on each row (or vice versa, but it's more convenient to emit a row at
a time). Direct algorithms are also available, but they are much more
complex and seem not to be any faster when reduced to code.

This implementation is based on Arai, Agui, and Nakajima's algorithm for
scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
Japanese, but the algorithm is described in the Pennebaker & Mitchell
JPEG textbook (see REFERENCES section in file README). The following code
is based directly on figure 4-8 in P&M.

While an 8-point DCT cannot be done in less than 11 multiplies, it is
possible to arrange the computation so that many of the multiplies are
simple scalings of the final outputs. These multiplies can then be
folded into the multiplications or divisions by the JPEG quantization
table entries. The AA&N method leaves only 5 multiplies and 29 adds
to be done in the DCT itself.

The primary disadvantage of this method is that with a fixed-point
implementation, accuracy is lost due to imprecise representation of the
scaled quantization values. However, that problem does not arise if
we use floating point arithmetic.

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This file contains routines to read input images in GIF format.

NOTE: to avoid entanglements with Unisys' patent on LZW compression,
the ability to read GIF files has been removed from the IJG distribution.
Sorry about that.

We are required to state that
"The Graphics Interchange Format(c) is the Copyright property of
CompuServe Incorporated. GIF(sm) is a Service Mark property of
CompuServe Incorporated."
/*
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in Targa format.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * Based on code contributed by Lee Daniel Crocker.
 */

/*
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file documents the configuration options that are required to
 * customize the JPEG software for a particular system.
 *
 * The actual configuration options for a particular installation are stored
 * in jconfig.h. On many machines, jconfig.h can be generated automatically
 * or copied from one of the "canned" jconfig files that we supply. But if
 * you need to generate a jconfig.h file by hand, this file tells you how.
 *
 * DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
 * EDIT A COPY NAMED JCONFIG.H.
 */
* These symbols indicate the properties of your machine or compiler.
* #define the symbol if yes, #undef it if no.
*/

/* Does your compiler support function prototypes?
* (If not, you also need to use ansi2knr, see install.txt)
*/
#define HAVE_PROTOTYPES

/* Does your compiler support the declaration "unsigned char"?
* How about "unsigned short"?
*/
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

/* Define "void" as "char" if your compiler doesn't know about type void.
* NOTE: be sure to define void such that "void *" represents the most general
* pointer type, e.g., that returned by malloc().
*/
#define void char

/* Define "const" as empty if your compiler doesn't know the "const" keyword.
*/
#define const

/* Define this if an ordinary "char" type is unsigned.
* If you're not sure, leaving it undefined will work at some cost in speed.
* If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
*/
#undef CHAR_IS_UNSIGNED

/* Define this if your system has an ANSI-conforming <stddef.h> file.
*/
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h> file.
*/
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>,
* but does have a BSD-style <strings.h>.
*/
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the
* ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in
* <sys/types.h> instead.
*/
/* For 80x86 machines, you need to define NEED_FAR_POINTERS,
* unless you are using a large-data memory model or 80386 flat-memory mode.
* On less brain-damaged CPUs this symbol must not be defined.
* (Defining this symbol causes large data structures to be referenced through
* "far" pointers and to be allocated with a special version of malloc.)
*/
#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less
* than the first 15 characters.
*/
#undef NEED_SHORT_EXTERNAL_NAMES

/* Although a real ANSI C compiler can deal perfectly well with pointers to
* unspecified structures (see "incomplete types" in the spec), a few pre-ANSI
* and pseudo-ANSI compilers get confused. To keep one of these bozos happy,
* define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you
* actually get "missing structure definition" warnings or errors while
* compiling the JPEG code.
*/
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not int, on Windows systems.
*/
#ifdef _WIN32
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
#endif

/* The following options affect code selection within the JPEG library,
* but they don't need to be visible to applications using the library.
* To minimize application namespace pollution, the symbols won't be
* defined unless JPEG_INTERNALS has been defined.
*/
#ifdef JPEG_INTERNALS
/* Define this if your compiler implements ">>" on signed values as a logical
* (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
* which is the normal and rational definition.
*/
#undef RIGHT_SHIFT_IS_UNSIGNED

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#endif /* JPEG_INTERNALS */

/*
 * The remaining options do not affect the JPEG library proper,
 * but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
 * Other applications can ignore these.
 */

#ifndef JPEG_CJPEG_DJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */

#define BMP_SUPPORTED /* BMP image file format */
#define GIF_SUPPORTED /* GIF image file format */
#define PPM_SUPPORTED /* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED /* Utah RLE image file format */
#define TARGA_SUPPORTED /* Targa image file format */

/* Define this if you want to name both input and output files on the command
 * line, rather than using stdout and optionally stdin. You MUST do this if
 * your system can't cope with binary I/O to stdin/stdout. See comments at
 * head of cjpeg.c or djpeg.c.
 */
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.
 * This is crucial under MS-DOS, where the temporary "files" may be areas
 * of extended memory; on most other systems it's not as important.
 */
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...,"rb") or fopen(...,"wb").
 * This is necessary on systems that distinguish text files from binary files,
 * and is harmless on most systems that don't. If you have one of the rare
 * systems that complains about the "b" spec, define this symbol.
 */
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpeg/djpeg.
 */
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */
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Modified 2009 by Bill Allombert, Guido Vollbeding.
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For conditions of distribution and use, see the accompanying README file.

This file contains routines to read input images in PPM/PGM format.
The extended 2-byte-per-sample raw PPM/PGM formats are supported.
The PBMPLUS library is NOT required to compile this software
(but it is highly useful as a set of PPM image manipulation programs).

These routines may need modification for non-Unix environments or
specialized applications. As they stand, they assume input from
an ordinary stdio stream. They further assume that reading begins
at the start of the file; start_input may need work if the
user interface has already read some data (e.g., to determine that
the file is indeed PPM format).

Portions of this code are based on the PBMPLUS library, which is:

**
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**
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implied warranty.
**

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* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
*
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on a
* x86_64 architecture.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-
archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYI1W4/libjpeg-turbo-
1.2.90/simd/jsimd_x86_64.c
No license file was found, but licenses were detected in source scan.

/*
* jidctfst.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a fast, not so accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/jidctfst.c
No license file was found, but licenses were detected in source scan.

License: BSD-style
libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/release/libjpeg-turbo.spec.in
No license file was found, but licenses were detected in source scan.

/*
 * jccolext.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009-2012, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * *
 * This file contains input colorspace conversion routines.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/jccolext.c
No license file was found, but licenses were detected in source scan.

1.2.90 (1.3 beta1)
==================

[1] Added support for additional scaling factors (3/8, 5/8, 3/4, 7/8, 9/8, 5/4,
11/8, 3/2, 13/8, 7/4, 15/8, and 2) when decompressing. Note that the IDCT will
not be SIMD-accelerated when using any of these new scaling factors.

[2] The TurboJPEG dynamic library is now versioned. It was not strictly
necessary to do so, because TurboJPEG uses versioned symbols, and if a function
changes in an ABI-incompatible way, that function is renamed and a legacy
function is provided to maintain backward compatibility. However, certain
Linux distro maintainers will blindly reject any library that is not versioned,
so this was an attempt to make them happy.

[3] Extended the TurboJPEG Java API so that it can be used to compress a JPEG
image from and decompress a JPEG image to an arbitrary position in a large
image buffer.

[4] The tjDecompressToYUV() function now supports the TJFLAG_FASTDCT flag.

[5] The 32-bit supplementary package for amd64 Debian systems now provides symlinks in /usr/lib/i386-linux-gnu for the TurboJPEG libraries in /usr/lib32. This allows those libraries to be used on MultiArch-compatible systems (such as Ubuntu 11 and later) without setting the linker path.

[6] The TurboJPEG Java wrapper should now find the JNI library on Mac systems without having to pass -Djava.library.path=/usr/lib to java.

[7] TJBench has been ported to Java to provide a convenient way of validating the performance of the TurboJPEG Java API. It can be run with 'java -cp turbojpeg.jar TJBench'.

[8] cjpeg can now be used to generate JPEG files with the RGB colorspace (feature ported from jpeg-8d.)

[9] The width and height in the -crop argument passed to jpegtran can now be suffixed with "f" to indicate that, when the upper left corner of the cropping region is automatically moved to the nearest iMCU boundary, the bottom right corner should be moved by the same amount. In other words, this feature causes jpegtran to strictly honor the specified width/height rather than the specified bottom right corner (feature ported from jpeg-8d.)

[10] JPEG files using the RGB colorspace can now be decompressed into grayscale images (feature ported from jpeg-8d.)

[11] Fixed a regression caused by 1.2.1[7] whereby the build would fail with multiple "Mismatch in operand sizes" errors when attempting to build the x86 SIMD code with NASM 0.98.

[12] The in-memory source/destination managers (jpeg_mem_src() and jpeg_mem_dest()) are now included by default when building libjpeg-turbo with libjpeg v6b or v7 emulation, so that programs can take advantage of these functions without requiring the use of the backward-incompatible libjpeg v8 ABI. The "age number" of the libjpeg-turbo library on Un*x systems has been incremented by 1 to reflect this. You can disable this feature with a configure/CMake switch in order to retain strict API/ABI compatibility with the libjpeg v6b or v7 API/ABI (or with previous versions of libjpeg-turbo.) See README-turbo.txt for more details.

[13] Added ARM v7s architecture to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build applications that leverage the faster CPUs in the iPhone 5 and iPad 4.
1.2.1
=====

[1] Creating or decoding a JPEG file that uses the RGB colorspace should now properly work when the input or output colorspace is one of the libjpeg-turbo colorspace extensions.

[2] When libjpeg-turbo was built without SIMD support and merged (non-fancy) upsampling was used along with an alpha-enabled colorspace during decompression, the unused byte of the decompressed pixels was not being set to 0xFF. This has been fixed. TJUnitTest has also been extended to test for the correct behavior of the colorspace extensions when merged upsampling is used.

[3] Fixed a bug whereby the libjpeg-turbo SSE2 SIMD code would not preserve the upper 64 bits of xmm6 and xmm7 on Win64 platforms, which violated the Win64 calling conventions.

[4] Fixed a regression caused by 1.2.0[6] whereby decompressing corrupt JPEG images (specifically, images in which the component count was erroneously set to a large value) would cause libjpeg-turbo to segfault.

[5] Worked around a severe performance issue with "Bobcat" (AMD Embedded APU) processors. The MASKMOVQDQU instruction, which was used by the libjpeg-turbo SSE2 SIMD code, is apparently implemented in microcode on AMD processors, and it is painfully slow on Bobcat processors in particular. Eliminating the use of this instruction improved performance by an order of magnitude on Bobcat processors and by a small amount (typically 5%) on AMD desktop processors.

[6] Added SIMD acceleration for performing 4:2:2 upsampling on NEON-capable ARM platforms. This speeds up the decompression of 4:2:2 JPEGs by 20-25% on such platforms.

[7] Fixed a regression caused by 1.2.0[2] whereby, on Linux/x86 platforms running the 32-bit SSE2 SIMD code in libjpeg-turbo, decompressing a 4:2:0 or 4:2:2 JPEG image into a 32-bit (RGBX, BGRX, etc.) buffer without using fancy upsampling would produce several incorrect columns of pixels at the right-hand side of the output image if each row in the output image was not evenly divisible by 16 bytes.

[8] Fixed an issue whereby attempting to build the SIMD extensions with Xcode 4.3 on OS X platforms would cause NASM to return numerous errors of the form """"%define' expects a macro identifier""."" This has been fixed.

[9] Added flags to the TurboJPEG API that allow the caller to force the use of either the fast or the accurate DCT/IDCT algorithms in the underlying codec.

1.2.0
[1] Fixed build issue with YASM on Unix systems (the libjpeg-turbo build system
was not adding the current directory to the assembler include path, so YASM
was not able to find jsimdefg.inc.)

[2] Fixed out-of-bounds read in SSE2 SIMD code that occurred when decompressing
a JPEG image to a bitmap buffer whose size was not a multiple of 16 bytes.
This was more of an annoyance than an actual bug, since it did not cause any
actual run-time problems, but the issue showed up when running libjpeg-turbo in
valgrind. See http://crbug.com/72399 for more information.

[3] Added a compile-time macro (LIBJPEG_TURBO_VERSION) that can be used to
check the version of libjpeg-turbo against which an application was compiled.

and pixel formats (TurboJPEG API), which allow applications to specify that,
when decompressing to a 4-component RGB buffer, the unused byte should be set
to 0xFF so that it can be interpreted as an opaque alpha channel.

[5] Fixed regression issue whereby DevIL failed to build against libjpeg-turbo
because libjpeg-turbo's distributed version of jconfig.h contained an INLINE
macro, which conflicted with a similar macro in DevIL. This macro is used only
internally when building libjpeg-turbo, so it was moved into config.h.

libjpeg-turbo will now correctly decompress erroneous CMYK/YCCK JPEGs whose
K component is assigned a component ID of 1 instead of 4. Although these files
are in violation of the spec, other JPEG implementations handle them
correctly.

[7] Added ARM v6 and ARM v7 architectures to libjpeg.a and libturbojpeg.a in
the official libjpeg-turbo binary package for OS X, so that those libraries can
be used to build both OS X and iOS applications.

1.1.90 (1.2 beta1)
=================================

[1] Added a Java wrapper for the TurboJPEG API. See java/README for more
details.

[2] The TurboJPEG API can now be used to scale down images during
decompression.

[3] Added SIMD routines for RGB-to-grayscale color conversion, which
significantly improves the performance of grayscale JPEG compression from an
RGB source image.
Improved the performance of the C color conversion routines, which are used on platforms for which SIMD acceleration is not available.

Added a function to the TurboJPEG API that performs lossless transforms. This function is implemented using the same back end as jpegtran, but it performs transcoding entirely in memory and allows multiple transforms and/or crop operations to be batched together, so the source coefficients only need to be read once. This is useful when generating image tiles from a single source JPEG.

Added tests for the new TurboJPEG scaled decompression and lossless transform features to tjbench (the TurboJPEG benchmark, formerly called "jpgtest").

Added support for 4:4:0 (transposed 4:2:2) subsampling in TurboJPEG, which was necessary in order for it to read 4:2:2 JPEG files that had been losslessly transposed or rotated 90 degrees.

All legacy VirtualGL code has been re-factored, and this has allowed libjpeg-turbo, in its entirety, to be re-licensed under a BSD-style license.

libjpeg-turbo can now be built with YASM.

Added SIMD acceleration for ARM Linux and iOS platforms that support NEON instructions.

Refactored the TurboJPEG C API and documented it using Doxygen. The TurboJPEG 1.2 API uses pixel formats to define the size and component order of the uncompressed source/destination images, and it includes a more efficient version of TJBUFSIZE() that computes a worst-case JPEG size based on the level of chrominance subsampling. The refactored implementation of the TurboJPEG API now uses the libjpeg memory source and destination managers, which allows the TurboJPEG compressor to grow the JPEG buffer as necessary.

Eliminated errors in the output of jpegtran on Windows that occurred when the application was invoked using I/O redirection (jpegtran <input.jpg >output.jpg).

The inclusion of libjpeg v7 and v8 emulation as well as arithmetic coding support in libjpeg-turbo v1.1.0 introduced several new error constants in jerror.h, and these were mistakenly enabled for all emulation modes, causing the error enum in libjpeg-turbo to sometimes have different values than the same enum in libjpeg. This represents an ABI incompatibility, and it caused problems with rare applications that took specific action based on a particular error value. The fix was to include the new error constants conditionally based on whether libjpeg v7 or v8 emulation was enabled.

Fixed an issue whereby Windows applications that used libjpeg-turbo would
fail to compile if the Windows system headers were included before jpeglib.h. This issue was caused by a conflict in the definition of the INT32 type.

[15] Fixed 32-bit supplementary package for amd64 Debian systems, which was broken by enhancements to the packaging system in 1.1.

[16] When decompressing a JPEG image using an output colorspace of JCS_EXT_RGBX, JCS_EXT_BGRX, JCS_EXT_XBGR, or JCS_EXT_XRGB, libjpeg-turbo will now set the unused byte to 0xFF, which allows applications to interpret that byte as an alpha channel (0xFF = opaque).

1.1.1 =====

[1] Fixed a 1-pixel error in row 0, column 21 of the luminance plane generated by tjEncodeYUV().

[2] libjpeg-turbo's accelerated Huffman decoder previously ignored unexpected markers found in the middle of the JPEG data stream during decompression. It will now hand off decoding of a particular block to the unaccelerated Huffman decoder if an unexpected marker is found, so that the unaccelerated Huffman decoder can generate an appropriate warning.

[3] Older versions of MinGW64 prefixed symbol names with underscores by default, which differed from the behavior of 64-bit Visual C++. MinGW64 1.0 has adopted the behavior of 64-bit Visual C++ as the default, so to accommodate this, the libjpeg-turbo SIMD function names are no longer prefixed with an underscore when building with MinGW64. This means that, when building libjpeg-turbo with older versions of MinGW64, you will now have to add -fno-leading-underscore to the CFLAGS.

[4] Fixed a regression bug in the NSIS script that caused the Windows installer build to fail when using the Visual Studio IDE.

[5] Fixed a bug in jpeg_read_coefficients() whereby it would not initialize cinfo->image_width and cinfo->image_height if libjpeg v7 or v8 emulation was enabled. This specifically caused the jpegoptim program to fail if it was linked against a version of libjpeg-turbo that was built with libjpeg v7 or v8 emulation.


[7] Eliminated errors in the output of cjpeg on Windows that occurred when the application was invoked using I/O redirection (cjpeg <inputfile >output.jpg).
1.1.0
=====

[1] The algorithm used by the SIMD quantization function cannot produce correct results when the JPEG quality is >= 98 and the fast integer forward DCT is used. Thus, the non-SIMD quantization function is now used for those cases, and libjpeg-turbo should now produce identical output to libjpeg v6b in all cases.

[2] Despite the above, the fast integer forward DCT still degrades somewhat for JPEG qualities greater than 95, so the TurboJPEG wrapper will now automatically use the slow integer forward DCT when generating JPEG images of quality 96 or greater. This reduces compression performance by as much as 15% for these high-quality images but is necessary to ensure that the images are perceptually lossless. It also ensures that the library can avoid the performance pitfall created by [1].

[3] Ported jpgtest.cxx to pure C to avoid the need for a C++ compiler.


[5] The Windows distribution packages now include the libjpeg run-time programs (cjpeg, etc.)

[6] All packages now include jpgtest.


[8] Added two new TurboJPEG API functions, tjEncodeYUV() and tjDecompressToYUV(), to replace the somewhat hackish TJ_YUV flag.

1.0.90 (1.1 beta1)
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[1] Added emulation of the libjpeg v7 and v8 APIs and ABIs. See README-turbo.txt for more details. This feature was sponsored by CamTrace SAS.


[3] Grayscale bitmaps can now be compressed from/decompressed to using the TurboJPEG API.

[4] jpgtest can now be used to test decompression performance with existing JPEG images.

[5] If the default install prefix (/opt/libjpeg-turbo) is used, then
'make install' now creates /opt/libjpeg-turbo/lib32 and /opt/libjpeg-turbo/lib64 sym links to duplicate the behavior of the binary packages.

[6] All symbols in the libjpeg-turbo dynamic library are now versioned, even when the library is built with libjpeg v6b emulation.

[7] Added arithmetic encoding and decoding support (can be disabled with configure or CMake options)

[8] Added a TJ_YUV flag to the TurboJPEG API, which causes both the compressor and decompressor to output planar YUV images.

[9] Added an extended version of tjDecompressHeader() to the TurboJPEG API, which allows the caller to determine the type of subsampling used in a JPEG image.

[10] Added further protections against invalid Huffman codes.

1.0.1
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[1] The Huffman decoder will now handle erroneous Huffman codes (for instance, from a corrupt JPEG image.) Previously, these would cause libjpeg-turbo to crash under certain circumstances.

[2] Fixed typo in SIMD dispatch routines that was causing 4:2:2 upsampling to be used instead of 4:2:0 when decompressing JPEG images using SSE2 code.

[3] configure script will now automatically determine whether the INCOMPLETE_TYPES_BROKEN macro should be defined.

1.0.0
=====

[1] 2983700: Further FreeBSD build tweaks (no longer necessary to specify --host when configuring on a 64-bit system)

[2] Created symlinks in the Unix/Linux packages so that the TurboJPEG include file can always be found in /opt/libjpeg-turbo/include, the 32-bit static libraries can always be found in /opt/libjpeg-turbo/lib32, and the 64-bit static libraries can always be found in /opt/libjpeg-turbo/lib64.

[3] The Unix/Linux distribution packages now include the libjpeg run-time programs (cjpeg, etc.) and man pages.


[6] Include distribution package for Cygwin

[7] No longer necessary to specify --without-simd on non-x86 architectures, and unit tests now work on those architectures.

0.0.93
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[1] 2982659, Fixed x86-64 build on FreeBSD systems

[2] 2988188: Added support for Windows 64-bit systems

0.0.91
======

[1] Added documentation to .deb packages

[2] 2968313: Fixed data corruption issues when decompressing large JPEG images and/or using buffered I/O with the libjpeg-turbo decompressor

0.0.90
======

Initial release

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/ChangeLog.txt
No license file was found, but licenses were detected in source scan.

/*
 * jpegint.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file provides common declarations for the various JPEG modules.
 * These declarations are considered internal to the JPEG library; most
Open Source Used In Identity Services Engine 3.0

* applications using the library shouldn't need to include this file.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/jpegint.h
No license file was found, but licenses were detected in source scan.

/*
 * jdatasrc.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains decompression data source routines for the case of
 * reading JPEG data from memory or from a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different source manager.
 * IMPORTANT: we assume that fread() will correctly transcribe an array of
 * JOCTETs from 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/jdatasrc.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
This file was part of the Independent JPEG Group's software.
It was modified by The libjpeg-turbo Project to include only information
relevant to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJG JPEG software;
that is, the functions of the various modules in the system and the interfaces
between modules. For more precise details about any data structure or calling
convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard.
The README file includes references for learning about JPEG. The file
libjpeg.txt describes the library from the viewpoint of an application programmer using the library; it's best to read that file before this one. Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number).
A "block" is an 8x8 group of samples or coefficients.
An "MCU" (minimum coded unit) is an interleaved set of blocks of size determined by the sampling factors, or a single block in a noninterleaved scan.
We do not use the terms "pixel" and "sample" interchangeably. When we say pixel, we mean an element of the full-size image, while a sample is an element of the downsampled image. Thus the number of samples may vary across components while the number of pixels does not. (This terminology is not used rigorously throughout the code, but it is used in places where confusion would otherwise result.)

*** System features ***

The IJG distribution contains two parts:
* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform JFIF JPEG files to and from several other image formats.
cjpeg/djpeg are of no great intellectual complexity: they merely add a simple command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. Hierarchical processes are not supported.

The library does not support the lossless (spatial) JPEG process. Lossless JPEG shares little or no code with lossy JPEG, and would normally be used without the extensive pre- and post-processing provided by this library. We feel that lossless JPEG is better handled by a separate library.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.
By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

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

*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination
modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:
* Color space conversion (e.g., RGB to YCbCr).
* Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:
* MCU assembly, DCT, quantization.
* Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:
* Entropy decoding (sequential or progressive, Huffman or arithmetic).
* Dequantization, inverse DCT, MCU disassembly.

Postprocessing:
* Upsampling. Optionally, this step may be able to do more general rescaling of the image.
* Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [ currently it does not ].
* Optional color quantization (e.g., reduction to 256 colors).
* Optional color precision reduction (e.g., 24-bit to 15-bit color).
 [This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module.
The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (8-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done
by indirecting through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jpegdst.c, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:
1. Master control for module selection and initialization. This has two responsibilities:

1A. Startup initialization at the beginning of image processing. The individual processing modules to be used in this run are selected and given initialization calls.

1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

Each buffer controller sees the world as follows:

input data => processing step A => buffer => processing step B => output data

<p>| | |</p>
<table>
<thead>
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<th></th>
<th></th>
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------------------ controller ------------------

The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:

* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)

* In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.
In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```
|-- Colorspace conversion
    |-- Preprocessing controller --]
    |                              |-- Downsampling
Main controller --]
    |                    |-- Forward DCT, quantize
    |-- Coefficient controller --]
    |                            |-- Entropy encoding
```

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as $V_{\text{max}}$ pixel rows of each component before downsampling, and $V_k$ sample rows afterwards (remember $V_k$ differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the
The preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of 8 samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of 8 rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object’s methods to change error handling.
* Progress monitor: supports output of “percent-done” progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```
|-- Entropy decoding
 |  |-- Coefficient controller --|
 | |  |-- Dequantize, Inverse DCT
Main controller --|
 |  |-- Upsampling
 |  |-- Postprocessing controller --|  |-- Colorspace conversion
 | |  |-- Color quantization
 | |  |-- Color precision reduction
```

As before, this diagram also represents typical control flow. The objects shown are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller’s primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.
* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and
quantize in one step).

In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: jdinput.c controls only input-side processing, while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.
A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

```c
typedef something JSAMPLE;  a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW;  ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY;  ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE;  ptr to a list of color-component arrays
```

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during
decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:
* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as

\[ \text{GETJSAMPLE(image}[\text{colorcomponent}][\text{row}][\text{col}]) \]

where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by N consecutive JSAMPLE values, and an image row is an array of (# of color components)*(image width) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

```c
typedef short JCOEF; // a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; // an 8x8 block of coefficients
```
typedef JBLOCK *JBLOCKROW; ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; ptr to a list of color component arrays

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 blocks, corresponding to eight rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKs, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library
The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require
the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling jpeg_finish_compress() will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library’s memory manager controls allocation and deallocation of memory, and it manages large “virtual” data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in “pools” of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:

* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:

1. “Small” objects. Typically these require no more than 10K-20K total.
2. “Large” objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
   * On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
   * Pool allocation heuristics may differ for large and small objects.
   Note that individual “large” objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.
3. “Virtual” objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines
without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'être is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup.

The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers. Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the realize_virt_arrays computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing realize_virt_arrays to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.
A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in jdcoefct.c for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (jmemmgr.c) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

jpeg_mem_init, jpeg_mem_term system-dependent initialization/shutdown

jpeg_get_small, jpeg_free_small interface to malloc and free library routines (or their equivalents)

jpeg_get_large, jpeg_free_large interface to FAR malloc/free in MS-DOS machines; else usually the same as jpeg_get_small/jpeg_free_small

jpeg_mem_available estimate available memory

jpeg_openBacking_store create a backing-store object

readBacking_store manipulate a backing-store object

writeBacking_store,
closeBacking_store

On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). jpeg_openBacking_store is responsible for choosing how to implement a given object. The read/write/close routines
are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call self_destruct (typically via jpeg_destroy) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.
This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.

2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.
* the file is indeed Targa format.
*
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIWi4/libjpeg-turbo-1.2.90/rdtarga.c

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

; For conditions of distribution and use, see copyright notice in jsimdext.inc

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIWi4/libjpeg-turbo-1.2.90/simd/jdcolss2-64.asm
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIWi4/libjpeg-turbo-1.2.90/simd/jdmrgss2-64.asm
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIWi4/libjpeg-turbo-1.2.90/simd/jfsseflt.asm
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIWi4/libjpeg-turbo-1.2.90/simd/jdcolmnmx.asm
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIWi4/libjpeg-turbo-1.2.90/simd/jdssmss2.asm
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIWi4/libjpeg-turbo-1.2.90/simd/jcgryss2.asm
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIWi4/libjpeg-turbo-1.2.90/simd/jimmxred.asm
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIWi4/libjpeg-turbo-1.2.90/simd/jcgryss2-64.asm
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIWi4/libjpeg-turbo-1.2.90/simd/jfsseflt-64.asm
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIWi4/libjpeg-turbo-1.2.90/simd/jcgryss2-64.asm
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIWi4/libjpeg-turbo-1.2.90/simd/jcgrass2.asm
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIWi4/libjpeg-turbo-1.2.90/simd/jcqtmmnx.asm
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIWi4/libjpeg-turbo-1.2.90/simd/jcgryss2-64.asm
64.asm
*/opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90/simd/jisseflt.asm
*/opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90/simd/jcqnts2f.asm
*/opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90/simd/jdmrgss2.asm
*/opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90/simd/jf3dnflt.asm
*/opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90/simd/jdclrmmx.asm
*/opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90/simd/jccolss2-64.asm
*/opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90/simd/jcclrss2-64.asm
*/opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90/simd/jsimdcpu.asm
*/opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90/simd/jdmermmx.asm
*/opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90/simd/jiss2flt-64.asm
*/opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90/simd/jcsamss2.asm
*/opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90/simd/jcqt3dn.asm
*/opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90/simd/jcgrass2-64.asm
*/opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90/simd/jcqntsse.asm
*/opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90/simd/jcqntsse.asm
*/opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90/simd/jcqntmse.asm
No license file was found, but licenses were detected in source scan.

/*
 * jversion.h

 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, 2012-2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains software version identification.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90/release/uninstall
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90/libjpeg-turbo-1.2.90/jversion.h

No license file was found, but licenses were detected in source scan.
* It is also possible to use just the second pass to map to an arbitrary
* externally-given color map.
*
* Note: ordered dithering is not supported, since there isn't any fast
* way to compute intercolor distances; it's unclear that ordered dither's
* fundamental assumptions even hold with an irregularly spaced color map.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYI7W4/libjpeg-turbo-1.2.90/jquant2.c
No license file was found, but licenses were detected in source scan.

*/
* jcmarker.c
 *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
 *
* This file contains routines to write JPEG datastream markers.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYI7W4/libjpeg-turbo-1.2.90/jcmarker.c
No license file was found, but licenses were detected in source scan.

*/
* cjpeg.c
 *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
 *
* This file contains a command-line user interface for the JPEG compressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
 *
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
* cjpeg [options] inputfile outputfile
* cjpeg [options] [inputfile]
* In the second style, output is always to standard output, which you'd

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* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
 *cjpeg [options] -outfile outputfile  inputfile
* works regardless of which command line style is used.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYlW4/libjpeg-turbo-1.2.90/cjpeg.c
* No license file was found, but licenses were detected in source scan.

/*
 * transupp.c
 *
* This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
* Modifications:
 * Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
 *
* This file contains image transformation routines and other utility code
* used by the jpegtran sample application. These are NOT part of the core
* JPEG library. But we keep these routines separate from jpegtran.c to
* ease the task of maintaining jpegtran-like programs that have other user
* interfaces.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYlW4/libjpeg-turbo-1.2.90/transupp.c
* No license file was found, but licenses were detected in source scan.

/*
 * jidctint.c
 *
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modification developed 2002-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
 *
* This file contains a slow-but-accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT on each row (or vice versa, but it's more convenient to emit a row at a time). Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

* This implementation is based on an algorithm described in
  * The primary algorithm described there uses 11 multiplies and 29 adds.
  * We use their alternate method with 12 multiplies and 32 adds.
  * The advantage of this method is that no data path contains more than one multiplication; this allows a very simple and accurate implementation in scaled fixed-point arithmetic, with a minimal number of shifts.

* We also provide IDCT routines with various output sample block sizes for direct resolution reduction or enlargement without additional resampling:
  * N×N (N=1...16) pixels for one 8×8 input DCT block.

* For N<8 we simply take the corresponding low-frequency coefficients of the 8×8 input DCT block and apply an N×N point IDCT on the sub-block to yield the downscaled outputs.
  * This can be seen as direct low-pass downsampling from the DCT domain point of view rather than the usual spatial domain point of view, yielding significant computational savings and results at least as good as common bilinear (averaging) spatial downsampling.

* For N>8 we apply a partial N×N IDCT on the 8 input coefficients as lower frequencies and higher frequencies assumed to be zero.
  * It turns out that the computational effort is similar to the 8×8 IDCT regarding the output size.
  * Furthermore, the scaling and descaling is the same for all IDCT sizes.

* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases since there would be too many additional constants to pre-calculate.

*/

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

/*
 * jpegtran.c
 *
 * This file was part of the Independent JPEG Group's software:
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 * Modifications:

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* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains a command-line user interface for JPEG transcoding.
* It is very similar to cjpeg.c, and partly to djpeg.c, but provides
* lossless transcoding between different JPEG file formats. It also
* provides some lossless and sort-of-lossless transformations of JPEG data.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYlW4/libjpeg-turbo-1.2.90/jpegtran.c
No license file was found, but licenses were detected in source scan.

/ *
* jerror.c
* 
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains simple error-reporting and trace-message routines.
* These are suitable for Unix-like systems and others where writing to
* stderr is the right thing to do. Many applications will want to replace
* some or all of these routines.
* 
* If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
* you get a Windows-specific hack to display error messages in a dialog box.
* It ain't much, but it beats dropping error messages into the bit bucket,
* which is what happens to output to stderr under most Windows C compilers.
* 
* These routines are used by both the compression and decompression code.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYlW4/libjpeg-turbo-1.2.90/jerror.c
No license file was found, but licenses were detected in source scan.

/ *
* jdmaster.c
* 
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2002-2009 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains master control logic for the JPEG decompressor.
* These routines are concerned with selecting the modules to be executed
* and with determining the number of passes and the work to be done in each
* pass.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/jdmaster.c
No license file was found, but licenses were detected in source scan.

/*/ 
* jdphuff.c
*
* Copyright (C) 1995-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains Huffman entropy decoding routines for progressive JPEG.
*
* Much of the complexity here has to do with supporting input suspension.
* If the data source module demands suspension, we want to be able to back
* up to the start of the current MCU. To do this, we copy state variables
* into local working storage, and update them back to the permanent
* storage only upon successful completion of an MCU.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/jdphuff.c
No license file was found, but licenses were detected in source scan.

/*/ 
* jdcolext.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains output colorspace conversion routines.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/jdcolext.c
No license file was found, but licenses were detected in source scan.

/*
 * jdatasrc-tj.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains decompression data source routines for the case of
 * reading JPEG data from memory or from a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different source manager.
 * IMPORTANT: we assume that fread() will correctly transcribe an array of
 * JOCTETs from 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYlW4/libjpeg-turbo-1.2.90/jdatasrc-tj.c

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

/*
 * jcomapi.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains application interface routines that are used for both
 * compression and decompression.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYlW4/libjpeg-turbo-1.2.90/jcomapi.c

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

/*
 * jsimd_none.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 */
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
* 
* This file contains stubs for when there is no SIMD support available.
*/

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/jsimd_none.c
No license file was found, but licenses were detected in source scan.

/*
 * jutils.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains tables and miscellaneous utility routines needed
 * for both compression and decompression.
 * Note we prefix all global names with "j" to minimize conflicts with
 * a surrounding application.
 */

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/jutils.c
No license file was found, but licenses were detected in source scan.

/*
 * djpeg.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010-2011, 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG decompressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 * djpeg [options] inputfile outputfile
 * djpeg [options] [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
  
djpeg [options]  -outfile outputfile  inputfile
* works regardless of which command line style is used.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/djpeg.c
No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see copyright notice in jsimdext.inc
; for more details.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/simd/jfss2fst-64.asm
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/jiss2fst.asm
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/simd/jfmmmxfst.asm
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/simd/jiss2fst-64.asm
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/simd/jimmxfst.asm
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/simd/jfss2fst.asm
No license file was found, but licenses were detected in source scan.

/*
 * jdsample.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
* This file contains upsampling routines.

* Upsampling input data is counted in "row groups". A row group
* is defined to be (v_samp_factor * DCT_scaled_size / min_DCT_scaled_size)
* sample rows of each component. Upsampling will normally produce
* max_v_samp_factor pixel rows from each row group (but this could vary
* if the upsampler is applying a scale factor of its own).

* An excellent reference for image resampling is
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/jdsample.c
No license file was found, but licenses were detected in source scan.

/*
* jsimddct.h
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
* */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/jsimddct.h
No license file was found, but licenses were detected in source scan.

USING THE IJG JPEG LIBRARY

This file was part of the Independent JPEG Group's software:
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Modifications:
Copyright (C) 2010, D. R. Commander.
For conditions of distribution and use, see the accompanying README file.

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

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

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

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

OVERVIEW
Functions provided by the library
---------------------------------

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

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

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

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:
* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios
We support both 8- and 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use both precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)
Outline of typical usage

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

The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source
manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation by calling jpeg_abort(); or, if you do not need to retain the JPEG object, simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.

BASIC LIBRARY USAGE
===================

Data formats
-------------

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel). PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE. A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to
right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 12. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (ie, at most 256 colors for an 8-bit JPEG library).

Compression details
-------------------

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has
a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```c
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

jpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```c
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```
where the last line invokes the standard destination module.

WARNING: it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmodet() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

image_width
Width of image, in pixels
image_height
Height of image, in pixels
input_components
Number of color channels (samples per pixel)
in_color_space
Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and input_components is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The in_color_space field must be assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

cinfo.image_width = Width; /* image width and height, in pixels */
cinfo.image_height = Height;
cinfo.input_components = 3;/* # of color components per pixel */
cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

jpeg_set_defaults(&cinfo);
/* Make optional parameter settings here */

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary source image info and other parameters, call jpeg_start_compress() to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

jpeg_start_compress(&cinfo, TRUE);

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called jpeg_start_compress(), you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)
jpeg_write_scanlines(...);

Now write all the required image data by calling jpeg_write_scanlines() one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else’s, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library’s virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far in the next_scanline field of the JPEG object. Usually you can just use
this variable as the loop counter, so that the loop test looks like
"while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```c
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```

jpeg_write_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:
* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen.
In any case, the return value is the same as the change in the value of next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination. jpeg_finish_compress() also releases working memory associated with the JPEG object.

Typical code:

```c
jpeg_finish_compress(&cinfo);
```

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take
quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call jpeg_set_defaults() to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error handler structure.

Typical code:

jpeg_destroy_compress(&cinfo);

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.
If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination(). (See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details
---------------------

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call jpeg_create_decompress(). Error handling is exactly the same.

Typical code:

```c
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:
If (infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged.
On non-Unix systems the stdio library may perform newline translation or
otherwise corrupt binary data. To suppress this behavior, you may need to use
a "b" option to fopen (as shown above), or use setmode() or another routine to
put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that
has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and
jpeg_finish_decompress(). If you wish to read a series of JPEG images from
a single source file, you should repeat the jpeg_read_header() to
jpeg_finish_decompress() sequence without reinitializing either the JPEG
object or the data source module; this prevents buffered input data from
being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

jpeg_read_header(&cinfo, TRUE);

This will read the source datastream header markers, up to the beginning
of the compressed data proper. On return, the image dimensions and other
info have been stored in the JPEG object. The application may wish to
consult this information before selecting decompression parameters.

More complex code is necessary if
* A suspending data source is used --- in that case jpeg_read_header()
  may return before it has read all the header data. See "I/O suspension",
  below. The normal stdio source manager will NOT cause this to happen.
* abbreviated JPEG files are to be processed --- see the section on
  abbreviated datastreams. Standard applications that deal only in
  interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the
image dimensions and other header info for a JPEG file. In that case,
call jpeg_destroy() when you are done with the JPEG object, or call
jpeg_abort() to return it to an idle state before selecting a new data
source and reading another header.

4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header(). If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

jpeg_start_decompress(&cinfo);

If you have requested a multi-pass operating mode, such as 2-pass color quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; jpeg_start_decompress() will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

output_width image width and height, as scaled
output_height
out_color_components # of color components in out_color_space
output_components # of color components returned per pixel
colormap the selected colormap, if any
actual_number_of_colors number of entries in colormap
output_components is 1 (a colormap index) when quantizing colors; otherwise it equals out_color_components. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need output_width * output_components JSAMPLEs per scanline in your output buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling jpeg_start_decompress(). This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling jpeg_calc_output_dimensions() after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
   jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling jpeg_read_scanlines() one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); jpeg_read_scanlines() will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.) The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must
always provide a loop that calls jpeg_read_scanlines() repeatedly until the whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:

jpeg_destroy_decompress(&cinfo);


You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don't need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.
Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES
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Compression parameter selection
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This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

jpeg_set_defaults (j_compress_ptr cinfo)
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field in_color_space, which must already be set in cinfo). Many applications will only need to use this routine and perhaps jpeg_set_quality().

jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)
Sets the JPEG file's colorspace (field jpeg_color_space) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call jpeg_set_colorspace() before rather than after.

jpeg_default_colorspace (j_compress_ptr cinfo)
Selects an appropriate JPEG colorspace based on cinfo->in_color_space, and calls jpeg_set_colorspace(). This is actually a subroutine of jpeg_set_defaults(). It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the force_baseline parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a
difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when force_baseline is FALSE, but other decoders may not be.

jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)
Same as jpeg_set_quality() except that the generated tables are the sample tables given in the JPEC spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus scale_factor = 100 reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. force_baseline again constrains the computed table entries to 1..255.

int jpeg_quality_scaling (int quality)
Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that can't be expressed as a simple scalar multiplier, in which case the premise of this routine collapses. Caveat user.

jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
[libjpeg v7+ API/ABI emulation only]
Set default quantization tables with linear q_scale_factor[] values (see below).

jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl, const unsigned int *basic_table, int scale_factor, boolean force_baseline)
Allows an arbitrary quantization table to be created. which_tbl indicates which table slot to fill. basic_table points to an array of 64 unsigned ints given in normal array order. These values are multiplied by scale_factor/100 and then clamped to the range 1..65535 (or to 1..255 if force_baseline is TRUE). CAUTION: prior to library version 6a, jpeg_add_quant_table expected the basic table to be given in JPEG zigzag order. If you need to write code that works with either older or newer versions of this routine, you must check the library version number. Something like “#if JPEG_LIB_VERSION >= 61” is the right test.

jpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file. This is the recommended method of creating a progressive file, unless you want to make a custom scan sequence. You must ensure that the JPEG color space is set correctly before calling this routine.
Compression parameters (cinfo fields) include:

**J_DCT_METHOD dct_method**

Selects the algorithm used for the DCT step. Choices are:

- JDICT_ISLOW: slow but accurate integer algorithm
- JDICT_IFAST: faster, less accurate integer method
- JDICT_FLOAT: floating-point method
- JDICT_DEFAULT: default method (normally JDICT_ISLOW)
- JDICT_FASTEST: fastest method (normally JDICT_IFAST)

The FLOAT method is very slightly more accurate than the ISLOW method, but may give different results on different machines due to varying roundoff behavior. The integer methods should give the same results on all machines. On machines with sufficiently fast FP hardware, the floating-point method may also be the fastest. The IFAST method is considerably less accurate than the other two; its use is not recommended if high quality is a concern. JDICT_DEFAULT and JDICT_FASTEST are macros configurable by each installation.

**J_COLOR_SPACE jpeg_color_space**

int num_components

The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using jpeg_set_color_space() if you want to change these.

**boolean optimize_coding**

TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

**unsigned int restart_interval**

int restart_in_rows

To emit restart markers in the JPEG file, set one of these nonzero.
Set restart_interval to specify the exact interval in MCU blocks. Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts).

One restart marker per MCU row is often a good choice.

NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs. If you use restarts, you may want to use larger intervals in those cases.
const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a
single-scan sequential JPEG file. If not NULL, scan_info points to
an array of scan definition records of length num_scans. The
compressor will then write a JPEG file having one scan for each scan
definition record. This is used to generate noninterleaved or
progressive JPEG files. The library checks that the scan array
defines a valid JPEG scan sequence. (jpeg_simple_progression creates
a suitable scan definition array for progressive JPEG.) This is
discussed further under "Progressive JPEG support".

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for
minimal smoothing to 100 for maximum smoothing. Consult jcsample.c
for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space
(ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker.
jpeg_set_defaults() initializes the version to 1.01 (major=minor=1).
You should set it to 1.02 (major=1, minor=2) if you plan to write
any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker;
not used otherwise. density_unit may be 0 for unknown,
1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1
indicating square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK,
or YCCK is selected, otherwise FALSE. It is generally a bad idea
to set both write_JFIF_header and write_Adobe_marker. In fact,
you probably shouldn't change the default settings at all --- the
default behavior ensures that the JPEG file's color space can be
recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]
Pointers to coefficient quantization tables, one per table slot,
or NULL if no table is defined for a slot. Usually these should be set via one of the above helper routines; jpeg_add_quant_table() is general enough to define any quantization table. The other routines will set up table slot 0 for luminance quality and table slot 1 for chrominance.

```c
int q_scale_factor[NUM_QUANT_TBLS]  
[libjpeg v7+ API/ABI emulation only]  
Linear quantization scaling factors (0-100, default 100) for use with jpeg_default_qtables().  
See rdswitch.c and cjpeg.c for an example of usage.  
Note that the q_scale_factor[] values use "linear" scales, so JPEG quality levels chosen by the user must be converted to these scales using jpeg_quality_scaling(). Here is an example that corresponds to cjpeg -quality 90,70:

jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);
```

CAUTION: Setting separate quality levels for chrominance and luminance is mainly only useful if chrominance subsampling is disabled. 2x2 chrominance subsampling (AKA "4:2:0") is the default, but you can explicitly disable subsampling as follows:

```c
// Set chrominance subsampling (AKA "4:2:0")
cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;
```

```c
JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]  
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]  
Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by jpeg_set_defaults(). If you need to allocate more table structures, jpeg_alloc_huff_table() may be used. Note that optimal Huffman tables can be computed for an image by setting optimize_coding, as discussed above; there's seldom any need to mess with providing your own Huffman tables.
```

[libjpeg v7+ API/ABI emulation only]  
The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by jpeg_start_compress(). You can
also call jpeg_calc_jpeg_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

**JDIMENSION** jpeg_width
Actual dimensions of output image.
**JDIMENSION** jpeg_height

Per-component parameters are stored in the struct cinfo.comp_info[i] for component number i. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large comp_info[] array is allocated by jpeg_set_defaults(); if you choose not to use that routine, it's up to you to allocate the array.

```c
int component_id
```
The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

```c
int h_samp_factor
int v_samp_factor
```
Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

```c
int quant_tbl_no
```
Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

```c
int dc_tbl_no
int ac_tbl_no
```
DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

```c
int component_index
```
Must equal the component's index in comp_info[]. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection
----------------------------------

Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are
recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by jpeg_read_header() and may be useful to the application in choosing decompression parameters:

- **JDIMENSION image_width**: Width and height of image
- **JDIMENSION image_height**: Number of color components
- **J_COLOR_SPACE jpeg_color_space**: Colorspace of image
- **boolean saw_JFIF_marker**: TRUE if a JFIF APP0 marker was seen
- **UINT8 JFIF_major_version**: Version information from JFIF marker
- **UINT8 JFIF_minor_version**: 
- **UINT8 density_unit**: Resolution data from JFIF marker
- **UINT16 X_density**: 
- **UINT16 Y_density**: boolean saw_Adobe_marker**: TRUE if an Adobe APP14 marker was seen
- **UINT8 Adobe_transform**: Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

- **J_COLOR_SPACE out_color_space**: Output color space. jpeg_read_header() sets an appropriate default based on jpeg_color_space; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to JCS_GRAYSCALE to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend jdcolor.c if you want an unusual conversion.

- **unsigned int scale_num, scale_denom**: Scale the image by the fraction scale_num/scale_denom. Default is 1/1, or no scaling. Currently, the only supported scaling ratios
are M/8 with all M from 1 to 16, or any reduced fraction thereof (such
as 1/2, 3/4, etc.) (The library design allows for arbitrary
scaling ratios but this is not likely to be implemented any time soon.)
Smaller scaling ratios permit significantly faster decoding since
fewer pixels need be processed and a simpler IDCT method can be used.

boolean quantize_colors
If set TRUE, colormapped output will be delivered. Default is FALSE,
meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize_colors is TRUE.

int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color
map (the actual number of colors is returned in a different field).
Default 256. Ignored when the application supplies its own color map.

boolean two_pass_quantize
If TRUE, an extra pass over the image is made to select a custom color
map for the image. This usually looks a lot better than the one-size-
fits-all colormap that is used otherwise. Default is TRUE. Ignored
when the application supplies its own color map.

J_DITHER_MODE dither_mode
Selects color dithering method. Supported values are:
JDITHER_NONE no dithering: fast, very low quality
JDITHER_ORDERED Ordered dither: moderate speed and quality
JDITHER_FS Floyd-Steinberg dither: slow, high quality
Default is JDITHER_FS. (At present, ordered dither is implemented
only in the single-pass, standard-colormap case. If you ask for
ordered dither when two_pass_quantize is TRUE or when you supply
an external color map, you'll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next
two fields. colormap is set to NULL by jpeg_read_header(). The application
can supply a color map by setting colormap non-NULL and setting
actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress()
selects a suitable color map and sets these two fields itself.
[Implementation restriction: at present, an externally supplied colormap is
only accepted for 3-component output color spaces.]

JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components
rows and actual_number_of_colors columns. Ignored if not quantizing.
CAUTION: if the JPEG library creates its own colormap, the storage
pointed to by this field is released by jpeg_finish_decompress().
Copy the colormap somewhere else first, if you want to save it.
int actual_number_of_colors
The number of colors in the color map.

Additional decompression parameters that the application may set include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

boolean do_fancy_upsampling
If TRUE, do careful upsampling of chroma components. If FALSE, a faster but sloppier method is used. Default is TRUE. The visual impact of the sloppier method is often very small.

boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without. In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.

boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *before* jpeg_start_decompress().

JDIMENSION output_width Actual dimensions of output image.
JDIMENSION output_height
int out_color_components Number of color components in out_color_space.
int output_components Number of color components returned.
int rec_outbuf_height Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays are required to be output_width * output_components JSAMPLEs wide.
rec_outbuf_height is the recommended minimum height (in scanlines) of the buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, rec_outbuf_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4). If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring rec_outbuf_height so as to avoid data copying. (An output buffer larger than rec_outbuf_height lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces
---------------------

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing de-facto JPEG file format standards specify YCbCr or grayscale data (JFIF), or grayscale, RGB, YCbCr, CMYK, or YCCK (Adobe). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB <=> YCbCr and CMYK <=> YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorspace(). Of course you must select a supported transformation. jccolor.c currently supports the following transformations:

RGB => YCbCr
RGB => GRAYSCALE
YCbCr => GRAYSCALE
CMYK => YCCK

plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB, YCbCr => YCbCr, CMYK => CMYK, YCCK => YCCK, and UNKNOWN => UNKNOWN.

The de-facto file format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the de-facto standards. jpeg_set_colorspace() will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space.

For example, if you are writing some random 3-component color space without...
conversion, don't try to fake out the library by setting in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for jpeg_set_colorspace(), in jcparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space, and this is transformed to the output color space out_color_space. jpeg_read_header's setting of jpeg_color_space can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also selects a default output color space based on (its guess of) jpeg_color_space; set out_color_space to override this. Again, you must select a supported transformation. jdcolor.c currently supports

YCbCr => RGB
YCbCr => GRAYSCALE
RGB => GRAYSCALE
GRAYSCALE => RGB
Ycck => CMYK

as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that jquant2.c is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the CMYK<=>YCCk transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.
Error handling

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When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit(). You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:
* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (jerror.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg_error_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

error_exit (j_common_ptr cinfo)
Receives control for a fatal error. Information sufficient to generate the error message has been stored in cinfo->err; call output_message to display it. Control must NOT return to the caller;
generally this routine will exit() or longjmp() somewhere. Typically you would override this routine to get rid of the exit() default behavior. Note that if you continue processing, you should clean up the JPEG object with jpeg_abort() or jpeg_destroy().

output_message (j_common_ptr cinfo)
Actual output of any JPEG message. Override this to send messages somewhere other than stderr. Note that this method does not know how to generate a message, only where to send it.

format_message (j_common_ptr cinfo, char * buffer)
Constructs a readable error message string based on the error info stored in cinfo->err. This method is called by output_message. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so, calls output_message. The main reason for overriding this method would be to abort on warnings. msg_level is -1 for warnings, 0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field err->jpeg_message_table. The messages are numbered from 0 to err->last_jpeg_message, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See jerror.h for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer err->addon_message_table and the message numbers err->first_addon_message and err->last_addon_message. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications cjpeg/djpeg for an example of using addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:
ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.
These macros store the message code and any additional parameters into the
error handler struct, then invoke the error_exit() or emit_message() method. The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

```c
JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer;      /* # of byte spaces remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:
init_destination (j_compress_ptr cinfo)
Initialize destination. This is called by jpeg_start_compress()
before any data is actually written. It must initialize
next_output_byte and free_in_buffer. free_in_buffer must be
initialized to a positive value.

empty_output_buffer (j_compress_ptr cinfo)
This is called whenever the buffer has filled (free_in_buffer
reaches zero). In typical applications, it should write out the
*entire* buffer (use the saved start address and buffer length;
ignore the current state of next_output_byte and free_in_buffer).
Then reset the pointer & count to the start of the buffer, and
return TRUE indicating that the buffer has been dumped.
free_in_buffer must be set to a positive value when TRUE is
returned. A FALSE return should only be used when I/O suspension is
desired (this operating mode is discussed in the next section).

term_destination (j_compress_ptr cinfo)
Terminate destination --- called by jpeg_finish_compress() after all
data has been written. In most applications, this must flush any
data remaining in the buffer. Use either next_output_byte or
free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you
want the destination manager to be cleaned up during an abort, you must do it
yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its
method pointers, and insert a pointer to the struct into the "dest" field of
the JPEG compression object. This can be done in-line in your setup code if
you like, but it's probably cleaner to provide a separate routine similar to
the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination
managers.

Decompression source managers follow a parallel design, but with some
additional frammishes. The source manager struct contains a pointer and count
defining the next byte to read from the work buffer and the number of bytes
remaining:

const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer; /* # of bytes remaining in buffer */

The library increments the pointer and decrements the count until the buffer
is emptied. The manager's fill_input_buffer method must reset the pointer and
count. In most applications, the manager must remember the buffer's starting
address and total size in private fields not visible to the library.
A data source manager provides five methods:

init_source (j_decompress_ptr cinfo)
Initialize source. This is called by jpeg_read_header() before any data is actually read. Unlike init_destination(), it may leave bytes_in_buffer set to 0 (in which case a fill_input_buffer() call will occur immediately).

fill_input_buffer (j_decompress_ptr cinfo)
This is called whenever bytes_in_buffer has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of next_input_byte and bytes_in_buffer), reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been reloaded. It is not necessary to fill the buffer entirely, only to obtain at least one more byte. bytes_in_buffer MUST be set to a positive value if TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this mode is discussed in the next section).

skip_input_data (j_decompress_ptr cinfo, long num_bytes)
Skip num_bytes worth of data. The buffer pointer and count should be advanced over num_bytes input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. bytes_in_buffer may be zero on return. A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)
This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, jpeg_resync_to_restart(). However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the read_restart_marker() and jpeg_resync_to_restart() routines in jdmarker.c if you think you'd like to implement your own resync procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via ERREXIT() or inserting fake data into the buffer.
In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOI.

jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in jdatasrc.c and jdatadst.c.

I/O suspension
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Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the empty_output_buffer() or fill_input_buffer() routine is a no-op, merely returning FALSE to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns
FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:
* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.
* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:
For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When fill_input_buffer() is called, next_input_byte/bytes_in_buffer point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement bytes_in_buffer to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then skip_input_data() must set bytes_in_buffer to zero and record the additional skip distance somewhere else. The decompressor will immediately call fill_input_buffer(), which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within fill_input_buffer(); the latter is probably more efficient. If fill_input_buffer() knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the
longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially; they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data's shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.
Progressive JPEG support

Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of
scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.) When scan_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

Buffered-image mode
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In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE;/* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
adjust output decompression parameters if required  
jpeg_start_output()/* start a new output pass */  
for (all scanlines in image) {
    jpeg_read_scanlines()  
display scanlines  
}
jpeg_finish_output()/* terminate output pass */  
} 
jpeg_finish_decompress()  
jpeg_destroy_decompress()  

This differs from ordinary unbuffered decoding in that there is an additional  
level of looping. The application can choose how many output passes to make  
and how to display each pass.

The simplest approach to displaying progressive images is to do one display  
pass for each scan appearing in the input file. In this case the outer loop  
condition is typically  
while (! jpeg_input_complete(&cinfo))  
and the start-output call should read  
jpeg_start_output(&cinfo, cinfo.input_scan_number);  
The second parameter to jpeg_start_output() indicates which scan of the input  
file is to be displayed; the scans are numbered starting at 1 for this  
purpose. (You can use a loop counter starting at 1 if you like, but using  
the library's input scan counter is easier.) The library automatically reads  
data as necessary to complete each requested scan, and jpeg_finish_output()  
advances to the next scan or end-of-image marker (hence input_scan_number  
will be incremented by the time control arrives back at jpeg_start_output()).  
With this technique, data is read from the input file only as needed, and  
input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the  
buffered image remains available; it can be read additional times by  
repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output()  
sequence. For example, a useful technique is to use fast one-pass color  
quantization for display passes made while the image is arriving, followed by  
a final display pass using two-pass quantization for highest quality. This  
is done by changing the library parameters before the final output pass.  
Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such  
until after it is read, so a post-input display pass is the best approach if  
you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release  
the buffered image (or just use jpeg_destroy_decompress()).  
If input data arrives faster than it can be displayed, the application can
cause the library to decode input data in advance of what's needed to produce output. This is done by calling the routine jpeg_consume_input(). The return value is one of the following:

- JPEG_REACHED_SOS: reached an SOS marker (the start of a new scan)
- JPEG_REACHED_EOI: reached the EOI marker (end of image)
- JPEG_ROW_COMPLETED: completed reading one MCU row of compressed data
- JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan
- JPEG_SUSPENDED: suspended before completing any of the above

This routine can be called at any time after initializing the JPEG object. It reads some additional data and returns when one of the indicated significant events occurs. (If called after the EOI marker is reached, it will immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library's output processing will automatically call jpeg_consume_input() whenever the output processing overtakes the input; thus, simple lockstep display requires no direct calls to jpeg_consume_input(). But by adding calls to jpeg_consume_input(), you can absorb data in advance of what is being displayed. This has two benefits:

* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the state of the library's input processing.

The first of these benefits only requires interspersing calls to jpeg_consume_input() with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it's best to call jpeg_consume_input() only after a hundred or so new bytes have arrived. This is discussed further under "I/O suspension", above. (Note: the JPEG library currently is not thread-safe. You must not call jpeg_consume_input() from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass cinfo.input_scan_number as the target scan number to jpeg_start_output(). The input_scan_number field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling jpeg_start_output(): call jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or JPEG_REACHED_EOI.

The target scan number passed to jpeg_start_output() is saved in the cinfo.output_scan_number field. The library's output processing calls jpeg_consume_input() whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by
manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what jpeg_start_decompress() does when you don't select buffered-image mode.)

When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, jpeg_consume_input() will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may “wrap around” the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you’ve skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

```
do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
} while (! final_pass);
```

rather than quitting as soon as jpeg_input_complete() returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:
for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}

In this case you don't need to know in advance whether an output pass is to
be the last one, so it's not necessary to have reached EOF before starting
the final output pass; rather, what you want to test is whether the output
pass was performed in sync with the final input scan. This form of the loop
will avoid an extra output pass whenever the decoder is able (or nearly able)
to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass,
then find that much or all of the file has arrived before you can complete
the pass. (You can detect this by noting the JPEG_REACHED_EOI return code
from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().)
In this situation you may wish to abort the current display pass and start a
new one using the newly arrived information. To do so, just call
jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete
scan arrives during an output pass; this can be detected by noting
JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This
idea should be employed with caution, however, since the display process
might never get to the bottom of the image before being aborted, resulting
in the lower part of the screen being several passes worse than the upper.
In most cases it's probably best to abort an output pass only if the whole
file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using
the current input scan number for the output target scan number; if a
higher-quality final pass is to be done, it should be started (aborting any
incomplete output pass) as soon as the end of file is received. However,
many other strategies are possible. For example, the application can examine
the parameters of the current input scan and decide whether to display it or
not. If the scan contains only chroma data, one might choose not to use it
as the target scan, expecting that the scan will be small and will arrive
quickly. To skip to the next scan, call jpeg_consume_input() until it
returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher
number as the target scan for jpeg_start_output(); but that method doesn't
let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and
thus never suspends. An application that uses input suspension with
buffered-image mode must be prepared for suspension returns from these
routines:

- jpeg_start_output() performs input only if you request 2-pass quantization
  and the target scan isn't fully read yet. (This is discussed below.)
- jpeg_read_scanlines(), as always, returns the number of scanlines that it
  was able to produce before suspending.
- jpeg_finish_output() will read any markers following the target scan,
  up to the end of the file or the SOS marker that begins another scan.
  (But it reads no input if jpeg_consume_input() has already reached the
  end of the file or a SOS marker beyond the target output scan.)
- jpeg_finish_decompress() will read until the end of file, and thus can
  suspend if the end hasn't already been reached (as can be tested by
  calling jpeg_input_complete()).

jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress()
all return TRUE if they completed their tasks, FALSE if they had to suspend.
In the event of a FALSE return, the application must load more input data
and repeat the call. Applications that use non-suspending data sources need
not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the
buffered-image mode. The decoder library currently supports only very
limited changes of parameters. ONLY THE FOLLOWING parameter changes are
allowed after jpeg_start_decompress() is called:

- dct_method can be changed before each call to jpeg_start_output().
  For example, one could use a fast DCT method for early scans, changing
to a higher quality method for the final scan.
- dither_mode can be changed before each call to jpeg_start_output();
  of course this has no impact if not using color quantization. Typically
  one would use ordered dither for initial passes, then switch to
  Floyd-Steinberg dither for the final pass. Caution: changing dither mode
  can cause more memory to be allocated by the library. Although the amount
  of memory involved is not large (a scanline or so), it may cause the
  initial max_memory_to_use specification to be exceeded, which in the worst
  case would result in an out-of-memory failure.
- do_block_smoothing can be changed before each call to jpeg_start_output().
  This setting is relevant only when decoding a progressive JPEG image.
  During the first DC-only scan, block smoothing provides a very "fuzzy" look
  instead of the very "blocky" look seen without it; which is better seems a
  matter of personal taste. But block smoothing is nearly always a win
  during later stages, especially when decoding a successive-approximation
  image: smoothing helps to hide the slight blockiness that otherwise shows
  up on smooth gradients until the lowest coefficient bits are sent.
- Color quantization mode can be changed under the rules described below.
  You *cannot* change between full-color and quantized output (because that
  would alter the required I/O buffer sizes), but you can change which
  quantization method is used.
When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.
   Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.
2. Single-pass quantization to an application-supplied colormap.
   Selected by setting cinfo.colormap to point to the colormap (the value of two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.
3. Two-pass quantization to a colormap chosen specifically for the image.
   Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL.
   (This is the default setting selected by jpeg_read_header, but it is probably NOT what you want for the first pass of progressive display!)

These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call jpeg_start_decompress(). (If we did not require this, the max_memory_to_use setting would be a complete fiction.) You do this by setting one or more of these three cinfo fields to TRUE:

- enable_1pass_quant	Fixed color cube colormap
- enable_external_quant	Externally-supplied colormap
- enable_2pass_quant	Two-pass custom colormap

All three are initialized FALSE by jpeg_read_header(). But jpeg_start_decompress() automatically sets TRUE the one selected by the current two_pass_quantize and colormap settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you can change to any enabled quantization method by setting two_pass_quantize and colormap properly just before calling jpeg_start_output(). The following special rules apply:

1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call jpeg_new_colormap() after setting cinfo.colormap.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

(These requirements exist because cinfo.colormap will always be non-NULL after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed. Yup, it's a bit klugy, but it's necessary to do it this way for backwards compatibility.)
Note that in buffered-image mode, the library generates any requested colormap during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, jpeg_start_output() will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from jpeg_start_output() under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which jpeg_start_output() will consume input.

Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager jmemnobs.c if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call
jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images
---------------------------------------------

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:

* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each
quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set optimize_coding = TRUE when you are trying to produce abbreviated files.
In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

```c
if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n];/* quant_ptr is JQUANT_TBL */
for (i = 0; i < 64; i++) {
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
}
```

Code to load a fixed Huffman table is typically (for AC table "n"):

```c
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n];/* huff_ptr is JHUFF_TBL */
for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
}
```

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a constant JQUANT_TBL object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The jpeg_read_header() call is sufficient to read a tables-only file. You must pass a second parameter of FALSE to indicate that you do not require an image to be present. Thus, the typical scenario is
create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains
an image or just tables. In that case, pass FALSE and check the return value
from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found,
JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value,
JPEG_SUSPENDED, is possible when using a suspending data source manager.)
Note that jpeg_read_header() will not complain if you read an abbreviated
image for which you haven't loaded the missing tables; the missing-table check
occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by
repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence,
without releasing/recreating the JPEG object or the data source module.
(If you did reinitialize, any partial bufferload left in the data source
buffer at the end of one image would be discarded, causing you to lose the
start of the next image.) When you use this method, stored tables are
automatically carried forward, so some of the images can be abbreviated images
that depend on tables from earlier images.

If you intend to write a series of images into a single destination file,
you might want to make a specialized data destination module that doesn't
flush the output buffer at term_destination() time. This would speed things
up by some trifling amount. Of course, you'd need to remember to flush the
buffer after the last image. You can make the later images be abbreviated
ones by passing FALSE to jpeg_start_compress().

Special markers
---------------

Some applications may need to insert or extract special data in the JPEG
datastream. The JPEG standard provides marker types "COM" (comment) and
"APP0" through "APP15" (application) to hold application-specific data.
Unfortunately, the use of these markers is not specified by the standard.
COM markers are fairly widely used to hold user-supplied text. The JFIF file
format spec uses APP0 markers with specified initial strings to hold certain
data. Adobe applications use APP14 markers beginning with the string "Adobe"
for miscellaneous data. Other APPn markers are rarely seen, but might
contain almost anything.

If you wish to store user-supplied text, we recommend you use COM
markers and place readable 7-bit ASCII text in them. Newline conventions
are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR
(Mac style). A robust COM reader should be able to cope with random binary
garbage, including nulls, since some applications generate COM markers
containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an
identifying string so that you can tell whether the marker is actually yours.
It's probably best to avoid using APP0 or APP14 for any private markers.
(NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you
not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you
can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the
selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if
the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but
we don't recommend it. The decompression library will recognize JFIF and
Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by
calling jpeg_write_marker() after jpeg_start_compress() and before the first
call to jpeg_write_scanlines(). When you do this, the markers appear after
the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all
else. Specify the marker type parameter as "JPEG_COM" for COM or
"JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write
any marker type, but we don't recommend writing any other kinds of marker.)
For example, to write a user comment string pointed to by comment_text:
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));

If it's not convenient to store all the marker data in memory at once,
you can instead call jpeg_write_m_header() followed by multiple calls to
jpeg_write_m_byte(). If you do it this way, it's your responsibility to
call jpeg_write_m_byte() exactly the number of times given in the length
parameter to jpeg_write_m_header(). (This method lets you empty the
output buffer partway through a marker, which might be important when
using a suspending data destination module. In any case, if you are using
a suspending destination, you should flush its buffer after inserting
any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself,
you can just cram it straight into the data destination module.
If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:
1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.

The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling jpeg_read_header(), because the markers of interest will typically be near the head of the file and so will be scanned by jpeg_read_header. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call

```
jpeg_save_markers(cinfo, marker_code, length_limit)
```

where `marker_code` is the marker type to save, JPEG_COM or JPEG_APP0+n. (To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than `length_limit` data bytes, only `length_limit` bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set `length_limit` to 0xFFFF; that is enough since marker lengths are only 16 bits. As a special case, setting `length_limit` to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After `jpeg_read_header()` completes, you can examine the special markers by following the `cinfo->marker_list` pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter
will not exceed length_limit for the particular marker type. Note that these
lengths exclude the marker length word, whereas the stored representation
within the JPEG file includes it. (Hence the maximum data length is really
only 65533.)

It is possible that additional special markers appear in the file beyond the
SOS marker at which jpeg_read_header stops; if so, the marker list will be
extended during reading of the rest of the file. This is not expected to be
common, however. If you are short on memory you may want to reset the length
limit to zero for all marker types after finishing jpeg_read_header, to
ensure that the max_memory_to_use setting cannot be exceeded due to addition
of later markers.

The marker list remains stored until you call jpeg_finish_decompress or
jpeg_abort, at which point the memory is freed and the list is set to empty.
(jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers;
if you try to set a small nonzero length limit on these types, the library
will silently force the length up to the minimum it wants. (But you can set
a zero length limit to prevent them from being saved at all.) Also, in a
16-bit environment, the maximum length limit may be constrained to less than
65533 by malloc() limitations. It is therefore best not to assume that the
effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling
jpeg_set_marker_processor(). A marker processor routine must have the
signature

boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)

Although the marker code is not explicitly passed, the routine can find it
in cinfo->unread_marker. At the time of call, the marker proper has been
read from the data source module. The processor routine is responsible for
reading the marker length word and the remaining parameter bytes, if any.
Return TRUE to indicate success. (FALSE should be returned only if you are
using a suspending data source and it tells you to suspend. See the standard
marker processors in jdmarker.c for appropriate coding methods if you need to
use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to
recognize JFIF and Adobe markers if you want colorspace recognition to occur
properly. We recommend copying and extending the default processors if you
want to do that. (A better idea is to save these marker types for later
examination by calling jpeg_save_markers(); that method doesn't interfere
with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive
--- if you call one it overrides any previous call to the other, for the
particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c. Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
----------------------------

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set jpeg_color_space = in_color_space (or jpeg_color_space = out_color_space for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of 8 valid samples, and there must be a multiple of 8 sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call jpeg_write_raw_data() in place of jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do the following:

* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().) This notifies the library that you will be supplying raw data.
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorsapce() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of jpeg_write_scanlines(). The two routines work similarly except that jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg_write_raw_data is measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say v_samp_factor*DCTSIZE sample rows of each component. The passed num_lines value must be at least max_v_samp_factor*DCTSIZE, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as

\[
cinfo->\text{comp_info[i].width_in_blocks}*\text{DCTSIZE} \quad \text{samples per row}
cinfo->\text{comp_info[i].height_in_blocks}*\text{DCTSIZE} \quad \text{rows in image}
\]

after jpeg_start_compress() has initialized those fields. If the valid data is smaller than this, it must be padded appropriately. For some sampling factors and image sizes, additional dummy DCT blocks are inserted to make the image a multiple of the MCU dimensions. The library creates such dummy blocks itself; it does not read them from your supplied data. Therefore you need never pad by more than DCTSIZE samples. An example may help here.

Assume 2h2v downsampling of YCbCr data, that is

\[
cinfo->\text{comp_info[0].h_samp_factor} = 2 \quad \text{for Y}
cinfo->\text{comp_info[0].v_samp_factor} = 2

cinfo->\text{comp_info[1].h_samp_factor} = 1 \quad \text{for Cb}
cinfo->\text{comp_info[1].v_samp_factor} = 1

cinfo->\text{comp_info[2].h_samp_factor} = 1 \quad \text{for Cr}
cinfo->\text{comp_info[2].v_samp_factor} = 1
\]

and suppose that the nominal image dimensions (cinfo->image_width and cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will compute downsampled_width = 101 and width_in_blocks = 13 for Y, downsampled_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same for the height fields). You must pad the Y data to at least 13*8 = 104 columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16 scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of 7*16 = 112 "scanlines". The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.
Output suspension is supported with raw-data compression: if the data destination module suspends, jpeg_write_raw_data() will return 0. In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing: you cannot ask for rescaling or color quantization, for instance. More seriously, you must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to verify that the color space and sampling factors are ones you can handle. Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a buffer of at least max_v_samp_factor*DCTSIZE scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, jpeg_read_raw_data() will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients
-------------------------------

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG
memory manager's access_virt_array method (see Memory management, below, and also read structure.txt's discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component's comp_info entry.) This is also the data format expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress() to release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This frammish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is

* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object

jpeg_write_coefficients() is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to cinf.num_components.

The virtual arrays need only have been requested, not realized, before
jpeg_write_coefficients() is called. A side-effect of
jpeg_write_coefficients() is to realize any virtual arrays that have been
requested from the compression object's memory manager. Thus, when obtaining
the virtual arrays from the compression object, you should fill the arrays
after calling jpeg_write_coefficients(). The data is actually written out
when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes
the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization
tables and sampling factors match the way the data was encoded, or the
resulting file will be invalid. For transcoding from an existing JPEG file,
we recommend using jpeg_copy_critical_parameters(). This routine initializes
all the compression parameters to default values (like jpeg_set_defaults()),
then copies the critical information from a source decompression object.
The decompression object should have just been used to read the entire
JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object
as needing to be written to the output file (thus, it acts like
jpeg_start_compress(cinfo, TRUE)). This is for safety's sake, to avoid
emitting abbreviated JPEG files by accident. If you really want to emit an
abbreviated JPEG file, call jpeg_suppress_tables(), or set the tables'
individual sent_table flags, between calling jpeg_write_coefficients() and
jpeg_finish_compress().

Progress monitoring
-------------------

Some applications may need to regain control from the JPEG library every so
often. The typical use of this feature is to produce a percent-done bar or
other progress display. (For a simple example, see cjpeg.c or djpeg.c.)
Although you do get control back frequently during the data-transferring pass
(the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes
will occur inside jpeg_finish_compress or jpeg_start_decompress; those
routines may take a long time to execute, and you don't get control back
until they are done.

You can define a progress-monitor routine which will be called periodically
by the library. No guarantees are made about how often this call will occur,
so we don't recommend you use it for mouse tracking or anything like that.
At present, a call will occur once per MCU row, scanline, or sample row
group, whichever unit is convenient for the current processing mode; so the
wider the image, the longer the time between calls. During the data
transferring pass, only one call occurs per call of jpeg_read_scanlines or
jpeg_write_scanlines, so don't pass a large number of scanlines at once if
you want fine resolution in the progress count. (If you really need to use
the callback mechanism for time-critical tasks like mouse tracking, you could
To establish a progress-monitor callback, create a struct jpeg_progress_mgr, fill in its progress_monitor field with a pointer to your callback routine, and set cinfo->progress to point to the struct. The callback will be called whenever cinfo->progress is non-NULL. (This pointer is set to NULL by jpeg_create_compress or jpeg_create_decompress; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:

- long pass_counter; /* work units completed in this pass */
- long pass_limit; /* total number of work units in this pass */
- int completed_passes; /* passes completed so far */
- int total_passes; /* total number of passes expected */

During any one pass, pass_counter increases from 0 up to (not including) pass_limit; the step size is usually but not necessarily 1. The pass_limit value may change from one pass to another. The expected total number of passes is in total_passes, and the number of passes already completed is in completed_passes. Thus the fraction of work completed may be estimated as completed_passes + (pass_counter/pass_limit)

-------------------------------------------------
total_passes

ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it depends on the number of scans in the JPEG file, which isn't always known in advance. The computed fraction-of-work-done may jump suddenly (if the library discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets total_passes based on the assumption that there will be one more output pass if the input file end hasn't yet been read (jpeg_input_complete() isn't TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that total_passes will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

Memory management

-------------------
This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read structure.txt's section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

`ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);`

Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object. Use alloc_large instead of alloc_small for anything bigger than a few Kbytes. There are also alloc_sarray and alloc_barray routines that automatically build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no temporary files are used; virtual arrays are simply malloc()'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before jpeg_start_compress() or jpeg_start_decompress() in order to have them counted against the max memory limit. Also keep in mind that space allocated with alloc_small() is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary
files get deleted. (This is especially crucial with jmemdos.c, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either jpeg_abort() or jpeg_destroy() for any active JPEG objects. A handler is not needed with jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either, since the C library is supposed to take care of deleting files made with tmpfile().

Memory usage
-----------

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)
The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options
----------------------------

A number of compile-time options are available by modifying jmorecfg.h.

The JPEG standard provides for both the baseline 8-bit DCT process and a 12-bit DCT process. The IJG code supports 12-bit lossy JPEG if you define BITS_IN_JSAMPLE as 12 rather than 8. Note that this causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data. The sample applications cjpeg and djpeg can support 12-bit mode only for PPM and GIF file formats; you must disable the other file formats to compile a 12-bit cjpeg or djpeg. (install.txt has more information about that.)

At present, a 12-bit library can handle only 12-bit images, not both precisions. (If you need to include both 8- and 12-bit libraries in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that a 12-bit library always compresses in Huffman optimization mode, in order to generate valid Huffman tables. This is necessary because our default Huffman tables only cover 8-bit data. If you need to output 12-bit files in one pass, you'll have to supply suitable default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.
You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?

Portability considerations
--------------------------

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that
char is at least 8 bits wide
short is at least 16 bits wide
int is at least 16 bits wide
long is at least 32 bits wide
(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.
The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg's select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
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The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you
save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxBGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/libjpeg.txt
No license file was found, but licenses were detected in source scan.

/*
 * jdinput.c
 *
 * This file was part of the Independent JPEG Group's software:
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 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input control logic for the JPEG decompressor.
 * These routines are concerned with controlling the decompressor's input
 * processing (marker reading and coefficient decoding). The actual input
 * reading is done in jdmarker.c, jdhuff.c, and jdphuff.c.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxBGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/jdinput.c
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxBGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-
Open Source Used In Identity Services Engine 3.0 1059

1.2.90/simd/jsimd_arm_neon.S
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 *
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 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * This implementation should be more accurate than either of the integer
 * DCT implementations. However, it may not give the same results on all
 * machines because of differences in roundoff behavior. Speed will depend
 * on the hardware's floating point capacity.
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with a fixed-point
 * implementation, accuracy is lost due to imprecise representation of the
 * scaled quantization values. However, that problem does not arise if
 * we use floating point arithmetic.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90/jfdctflt.c
No license file was found, but licenses were detected in source scan.

/*
 * jcdctmgr.c
 *
 * This file was part of the Independent JPEG Group's software:
 */
* Copyright (C) 1994-1996, Thomas G. Lane.
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2011 D. R. Commander
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the forward-DCT management logic.
* This code selects a particular DCT implementation to be used,
* and it performs related housekeeping chores including coefficient
* quantization.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYI1W4/libjpeg-turbo-1.2.90/jcdctmgr.c
No license file was found, but licenses were detected in source scan.

/*
* jccoefct.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the coefficient buffer controller for compression.
* This controller is the top level of the JPEG compressor proper.
* The coefficient buffer lies between forward-DCT and entropy encoding steps.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYI1W4/libjpeg-turbo-1.2.90/jccoefct.c
No license file was found, but licenses were detected in source scan.

/*
* jmemnobs.c
*
* Copyright (C) 1992-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides a really simple implementation of the system-
* dependent portion of the JPEG memory manager. This implementation
* assumes that no backing-store files are needed: all required space
* can be obtained from malloc().
* This is very portable in the sense that it'll compile on almost anything,
* but you'd better have lots of main memory (or virtual memory) if you want
* to process big images.
* Note that the max_memory_to_use option is ignored by this implementation.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/jmemnobs.c
No license file was found, but licenses were detected in source scan.

/*
* jQuery JavaScript Library v1.3.2
* http://jquery.com/
*
* Copyright (c) 2009 John Resig
* Dual licensed under the MIT and GPL licenses.
* http://docs.jquery.com/License
*
* Date: 2009-02-19 17:34:21 -0500 (Thu, 19 Feb 2009)
* Revision: 6246
*/

/*
* Sizzle CSS Selector Engine - v0.9.3
* Copyright 2009, The Dojo Foundation
* Released under the MIT, BSD, and GPL Licenses.
* More information: http://sizzlejs.com/
*/

/*
* jQuery UI 1.7.2
*
* Copyright (c) 2009 AUTHORS.txt (http://jqueryui.com/about)
* Dual licensed under the MIT (MIT-LICENSE.txt) and GPL (GPL-LICENSE.txt) licenses.
*
* http://docs.jquery.com/UI
*/

/**
* jQuery.ScrollTo - Easy element scrolling using jQuery.
* Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com
* Licensed under GPL license (http://www.opensource.org/licenses/gpl-license.php).
* Date: 2/8/2008
* @author Ariel Flesler
* @version 1.3.2
*/

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

License: IJG

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo.spec
No license file was found, but licenses were detected in source scan.

/*
* jdmarker.c
 *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains routines to decode JPEG datastream markers.
* Most of the complexity arises from our desire to support input
* suspension: if not all of the data for a marker is available,
* we must exit back to the application. On resumption, we reprocess
* the marker.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIWA4/libjpeg-turbo-1.2.90/jdmarker.c
No license file was found, but licenses were detected in source scan.

/*
* wrbmp.c
 *
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains routines to write output images in Microsoft "BMP"
* format (MS Windows 3.x and OS/2 1.x flavors).
* Either 8-bit colormapped or 24-bit full-color format can be written.
* No compression is supported.
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
* This code contributed by James Arthur Boucher.
*/
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYlW4/libjpeg-turbo-1.2.90/wrbmp.c

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

أفیهای لایسنس در فایل لایسنس پیدا نبودند اما لایسنس‌های مورد چک‌سازی مشاهده شدند.

*/
* rdbmp.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2010 by Guido Vollbeding.
* Modifications:
* Modified 2011 by Siarhei Siamashka.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Microsoft "BMP"
* format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
* Currently, only 8-bit and 24-bit images are supported, not 1-bit or
* 4-bit (feeding such low-depth images into JPEG would be silly anyway).
* Also, we don't support RLE-compressed files.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed BMP format).
*
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYlW4/libjpeg-turbo-1.2.90/rdbmp.c

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

*/
* jcsample.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains downsampling routines.
*
* Downsampling input data is counted in "row groups". A row group
* is defined to be max_v_samp_factor pixel rows of each component,
* from which the downsampler produces v_samp_factor sample rows.
* A single row group is processed in each call to the downsampler module.
*
* The downsampler is responsible for edge-expansion of its output data
* to fill an integral number of DCT blocks horizontally. The source buffer
* may be modified if it is helpful for this purpose (the source buffer is
* allocated wide enough to correspond to the desired output width).
* The caller (the prep controller) is responsible for vertical padding.
*
* The downsampler may request "context rows" by setting need_context_rows
* during startup. In this case, the input arrays will contain at least
* one row group's worth of pixels above and below the passed-in data;
* the caller will create dummy rows at image top and bottom by replicating
* the first or last real pixel row.
*
* An excellent reference for image resampling is
*
* The downsampling algorithm used here is a simple average of the source
* pixels covered by the output pixel. The hi-falutin sampling literature
* refers to this as a "box filter". In general the characteristics of a box
* filter are not very good, but for the specific cases we normally use (1:1
* and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
* nearly so bad. If you intend to use other sampling ratios, you'd be well
* advised to improve this code.
*
* A simple input-smoothing capability is provided. This is mainly intended
* for cleaning up color-dithered GIF input files (if you find it inadequate,
* we suggest using an external filtering program such as pnmconvol). When
* enabled, each input pixel P is replaced by a weighted sum of itself and its
* eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/

** Background**

libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2,
NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64,
and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

******************************************************************************
**     License
******************************************************************************

Most of libjpeg-turbo inherits the non-restrictive, BSD-style license used by libjpeg (see README.) The TurboJPEG wrapper (both C and Java versions) and associated test programs bear a similar license, which is reproduced below:

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of the libjpeg-turbo Project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

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libjpeg-turbo includes two APIs that can be used to compress and decompress JPEG images:

** TurboJPEG API: This API provides an easy-to-use interface for compressing and decompressing JPEG images in memory. It also provides some functionality that would not be straightforward to achieve using the underlying libjpeg API, such as generating planar YUV images and performing multiple simultaneous lossless transforms on an image. The Java interface for libjpeg-turbo is written on top of the TurboJPEG API.

** libjpeg API: This is the de facto industry-standard API for compressing and decompressing JPEG images. It is more difficult to use than the TurboJPEG API but also more powerful. The libjpeg API implementation in libjpeg-turbo is both API/ABI-compatible and mathematically compatible with libjpeg v6b. It can also optionally be configured to be API/ABI-compatible with libjpeg v7 and v8 (see below.)

There is no significant performance advantage to either API when both are used to perform similar operations.

** Installation Directory

This document assumes that libjpeg-turbo will be installed in the default directory (/opt/libjpeg-turbo on Un*x and Mac systems and c:\libjpeg-turbo[-gcc][64] on Windows systems. If your installation of libjpeg-turbo resides in a different directory, then adjust the instructions accordingly.

** Replacing libjpeg at Run Time

If a Un*x application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by manipulating LD_LIBRARY_PATH.
For instance:

[Using libjpeg]
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real 0m0.392s
user 0m0.074s
sys 0m0.202s

[Using libjpeg-turbo]
> export LD_LIBRARY_PATH=/opt/libjpeg-turbo/{lib}:$LD_LIBRARY_PATH
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real 0m0.109s
user 0m0.029s
sys 0m0.010s

({lib} = lib32 or lib64, depending on whether you wish to use the 32-bit or the 64-bit version of libjpeg-turbo.)

System administrators can also replace the libjpeg symlinks in /usr/lib* with links to the libjpeg-turbo dynamic library located in /opt/libjpeg-turbo/{lib}. This will effectively accelerate every application that uses the libjpeg dynamic library on the system.

Windows
-------

If a Windows application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by backing up the application's copy of jpeg62.dll, jpeg7.dll, or jpeg8.dll (assuming the application has its own local copy of this library) and copying the corresponding DLL from libjpeg-turbo into the application's install directory. The official libjpeg-turbo binary packages only provide jpeg62.dll. If the application uses jpeg7.dll or jpeg8.dll instead, then it will be necessary to build libjpeg-turbo from source (see "libjpeg v7 and v8 API/ABI Emulation" below.)

The following information is specific to the official libjpeg-turbo binary packages for Visual C++:

-- jpeg62.dll requires the Visual C++ 2008 C run-time DLL (msvc90.dll). msvc90.dll ships with more recent versions of Windows, but users of older Windows releases can obtain it from the Visual C++ 2008 Redistributable Package, which is available as a free download from Microsoft's web site.

-- Features of the libjpeg API that require passing a C run-time structure, such as a file handle, from an application to the library will probably not work with jpeg62.dll, unless the application is also built to use the Visual C++ 2008 C run-time DLL. In particular, this affects jpeg_stdio_dest() and jpeg_stdio_src().
Mac applications typically embed their own copies of the libjpeg dylib inside the (hidden) application bundle, so it is not possible to globally replace libjpeg on OS X systems. Replacing the application’s version of the libjpeg dylib would generally involve copying libjpeg.*.dylib from libjpeg-turbo into the appropriate place in the application bundle and using install_name_tool to repoint the libjpeg-turbo dylib to its new directory. This requires an advanced knowledge of OS X and would not survive an upgrade or a re-install of the application. Thus, it is not recommended for most users.

Using libjpeg-turbo in Your Own Programs

For the most part, libjpeg-turbo should work identically to libjpeg, so in most cases, an application can be built against libjpeg and then run against libjpeg-turbo. On Un*x systems and Cygwin, you can build against libjpeg-turbo instead of libjpeg by setting

```
CPATH=/opt/libjpeg-turbo/include
and
LIBRARY_PATH=/opt/libjpeg-turbo/{lib}
```

({lib} = lib32 or lib64, depending on whether you are building a 32-bit or a 64-bit application.)

If using MinGW, then set

```
CPATH=/c/libjpeg-turbo-gcc[64]/include
and
LIBRARY_PATH=/c/libjpeg-turbo-gcc[64]/lib
```

Building against libjpeg-turbo is useful, for instance, if you want to build an application that leverages the libjpeg-turbo colorspace extensions (see below.) On Un*x systems, you would still need to manipulate LD_LIBRARY_PATH or create appropriate symlinks to use libjpeg-turbo at run time. On such systems, you can pass -R /opt/libjpeg-turbo/[lib] to the linker to force the use of libjpeg-turbo at run time rather than libjpeg (also useful if you want to leverage the colorspace extensions), or you can link against the libjpeg-turbo static library.

To force a Un*x or MinGW application to link against the static version of libjpeg-turbo, you can use the following linker options:

```
-Wl,-Bstatic -ljpeg -Wl,-Bdynamic
```
On OS X, simply add /opt/libjpeg-turbo/lib/libjpeg.a to the linker command line.

To build Visual C++ applications using libjpeg-turbo, add c:\libjpeg-turbo[64]\include to the system or user INCLUDE environment variable and c:\libjpeg-turbo[64]\lib to the system or user LIB environment variable, and then link against either jpeg.lib (to use the DLL version of libjpeg-turbo) or jpeg-static.lib (to use the static version of libjpeg-turbo.)

=====================  
Colors Extensions  
=====================  

libjpeg-turbo includes extensions that allow JPEG images to be compressed directly from (and decompressed directly to) buffers that use BGR, BGRX, RGBX, XBGR, and XRGB pixel ordering. This is implemented with ten new colorspace constants:

- JCS_EXT_RGB /* red/green/blue */
- JCS_EXT_RGBX /* red/green/blue/x */
- JCS_EXT_BGR /* blue/green/red */
- JCS_EXT_BGRX /* blue/green/red/x */
- JCS_EXT_XBGR /* x/blue/green/red */
- JCS_EXT_XRGB /* x/red/green/blue */
- JCS_EXT_RGBA /* red/green/blue/alpha */
- JCS_EXT_BGRA /* blue/green/red/alpha */
- JCS_EXT_ABGR /* alpha/blue/green/red */
- JCS_EXT_ARGB /* alpha/red/green/blue */

Setting cinfo.in_color_space (compression) or cinfo.out_color_space (decompression) to one of these values will cause libjpeg-turbo to read the red, green, and blue values from (or write them to) the appropriate position in the pixel when compressing from/decompressing to an RGB buffer.

Your application can check for the existence of these extensions at compile time with:

#define JCS_EXTENSIONS

At run time, attempting to use these extensions with a libjpeg implementation that does not support them will result in a “Bogus input colorspace” error. Applications can trap this error in order to test whether run-time support is available for the colorspace extensions.

When using the RGBX, BGRX, XBGR, and XRGB colorspaces during decompression, the X byte is undefined, and in order to ensure the best performance, libjpeg-turbo can set that byte to whatever value it wishes. If an application expects the X
byte to be used as an alpha channel, then it should specify JCS_EXT_RGBA, JCS_EXT_BGRA, JCS_EXT_ABGR, or JCS_EXT_ARGB. When these colorspace constants are used, the X byte is guaranteed to be 0xFF, which is interpreted as opaque.

Your application can check for the existence of the alpha channel colorspace extensions at compile time with:

```c
#ifdef JCS_ALPHA_EXTENSIONS
```

jctest.c, located in the libjpeg-turbo source tree, demonstrates how to check for the existence of the colorspace extensions at compile time and run time.

===================================
libjpeg v7 and v8 API/ABI Emulation
===================================

With libjpeg v7 and v8, new features were added that necessitated extending the compression and decompression structures. Unfortunately, due to the exposed nature of those structures, extending them also necessitated breaking backward ABI compatibility with previous libjpeg releases. Thus, programs that were built to use libjpeg v7 or v8 did not work with libjpeg-turbo, since it is based on the libjpeg v6b code base. Although libjpeg v7 and v8 are still not as widely used as v6b, enough programs (including a few Linux distros) made the switch that there was a demand to emulate the libjpeg v7 and v8 ABIs in libjpeg-turbo. It should be noted, however, that this feature was added primarily so that applications that had already been compiled to use libjpeg v7+ could take advantage of accelerated baseline JPEG encoding/decoding without recompiling. libjpeg-turbo does not claim to support all of the libjpeg v7+ features, nor to produce identical output to libjpeg v7+ in all cases (see below.)

By passing an argument of --with-jpeg7 or --with-jpeg8 to configure, or an argument of -DWITH_JPEG7=1 or -DWITH_JPEG8=1 to cmake, you can build a version of libjpeg-turbo that emulates the libjpeg v7 or v8 ABI, so that programs that are built against libjpeg v7 or v8 can be run with libjpeg-turbo. The following section describes which libjpeg v7+ features are supported and which aren't.

Support for libjpeg v7 and v8 Features:
---------------------------------------

Fully supported:

-- libjpeg: IDCT scaling extensions in decompressor
libjpeg-turbo supports IDCT scaling with scaling factors of 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2/1 (only 1/4 and 1/2 are SIMD-accelerated.)
-- libjpeg: arithmetic coding

-- libjpeg: In-memory source and destination managers
See notes below.

-- cjpeg: Separate quality settings for luminance and chrominance
Note that the libjpeg v7+ API was extended to accommodate this feature only
for convenience purposes. It has always been possible to implement this
feature with libjpeg v6b (see rdswitch.c for an example.)

-- cjpeg: 32-bit BMP support

-- cjpeg: -rgb option

-- jpegtran: lossless cropping

-- jpegtran: -perfect option

-- jpegtran: forcing width/height when performing lossless crop

-- rdjpgcom: -raw option

-- rdjpgcom: locale awareness

Not supported:

NOTE: As of this writing, extensive research has been conducted into the
usefulness of DCT scaling as a means of data reduction and SmartScale as a
means of quality improvement. The reader is invited to peruse the research at
http://www.libjpeg-turbo.org/About/SmartScale and draw his/her own conclusions,
but it is the general belief of our project that these features have not
demonstrated sufficient usefulness to justify inclusion in libjpeg-turbo.

-- libjpeg: DCT scaling in compressor
cinfo.scale_num and cinfo.scale_denom are silently ignored.
There is no technical reason why DCT scaling could not be supported when
emulating the libjpeg v7+ API/ABI, but without the SmartScale extension (see
below), only scaling factors of 1/2, 8/15, 4/7, 8/13, 2/3, 8/11, 4/5, and
8/9 would be available, which is of limited usefulness.

-- libjpeg: SmartScale
cinfo.block_size is silently ignored.
SmartScale is an extension to the JPEG format that allows for DCT block
sizes other than 8x8. Providing support for this new format would be
feasible (particularly without full acceleration.) However, until/unless
the format becomes either an official industry standard or, at minimum, an
accepted solution in the community, we are hesitant to implement it, as
there is no sense of whether or how it might change in the future. It is our belief that SmartScale has not demonstrated sufficient usefulness as a lossless format nor as a means of quality enhancement, and thus, our primary interest in providing this feature would be as a means of supporting additional DCT scaling factors.

-- libjpeg: Fancy downsampling in compressor
cinfo.do_fancy_downsampling is silently ignored.
This requires the DCT scaling feature, which is not supported.

-- jpegtran: Scaling
This requires both the DCT scaling and SmartScale features, which are not supported.

-- Lossless RGB JPEG files
This requires the SmartScale feature, which is not supported.

What About libjpeg v9?

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

libjpeg v9 introduced yet another field to the JPEG compression structure (color_transform), thus making the ABI backward incompatible with that of libjpeg v8. This new field was introduced solely for the purpose of supporting lossless SmartScale encoding. Further, there was actually no reason to extend the API in this manner, as the color transform could have just as easily been activated by way of a new JPEG colorspace constant, thus preserving backward ABI compatibility.

Our research (see link above) has shown that lossless SmartScale does not generally accomplish anything that can't already be accomplished better with existing, standard lossless formats. Thus, at this time, it is our belief that there is not sufficient technical justification for software to upgrade from libjpeg v8 to libjpeg v9, and therefore, not sufficient technical justification for us to emulate the libjpeg v9 ABI.

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

In-Memory Source/Destination Managers
====================================

By default, libjpeg-turbo 1.3 and later includes the jpeg_mem_src() and jpeg_mem_dest() functions, even when not emulating the libjpeg v8 API/ABI. Previously, it was necessary to build libjpeg-turbo from source with libjpeg v8 API/ABI emulation in order to use the in-memory source/destination managers, but several projects requested that those functions be included when emulating the libjpeg v6b API/ABI as well. This allows the use of those functions by programs that need them without breaking ABI compatibility for programs that don't, and it allows those functions to be provided in the "official" libjpeg-turbo binaries.
Those who are concerned about maintaining strict conformance with the libjpeg v6b or v7 API can pass an argument of --without-mem-srcdst to configure or an argument of -DWITH_MEM_SRCDST=0 to CMake prior to building libjpeg-turbo. This will restore the pre-1.3 behavior, in which jpeg_mem_src() and jpeg_mem_dest() are only included when emulating the libjpeg v8 API/ABI.

On Unix systems, including the in-memory source/destination managers changes the dynamic library version from 62.0.0 to 62.1.0 if using libjpeg v6b API/ABI emulation and from 7.0.0 to 7.1.0 if using libjpeg v7 API/ABI emulation.

Note that, on most Unix systems, the dynamic linker will not look for a function in a library until that function is actually used. Thus, if a program is built against libjpeg-turbo 1.3+ and uses jpeg_mem_src() or jpeg_mem_dest(), that program will not fail if run against an older version of libjpeg-turbo or against libjpeg v7 - until the program actually tries to call jpeg_mem_src() or jpeg_mem_dest(). Such is not the case on Windows. If a program is built against the libjpeg-turbo 1.3+ DLL and uses jpeg_mem_src() or jpeg_mem_dest(), then it must use the libjpeg-turbo 1.3+ DLL at run time.

Both cjpeg and djpeg have been extended to allow testing the in-memory source/destination manager functions. See their respective man pages for more details.

*******************************************************************************
** Mathematical Compatibility
*******************************************************************************

For the most part, libjpeg-turbo should produce identical output to libjpeg v6b. The one exception to this is when using the floating point DCT/IDCT, in which case the outputs of libjpeg v6b and libjpeg-turbo are not guaranteed to be identical (the accuracy of the floating point DCT/IDCT is constant when using libjpeg-turbo's SIMD extensions, but otherwise, it can depend heavily on the compiler and compiler settings.)

While libjpeg-turbo does emulate the libjpeg v8 API/ABI, under the hood, it is still using the same algorithms as libjpeg v6b, so there are several specific cases in which libjpeg-turbo cannot be expected to produce the same output as libjpeg v8:

-- When decompressing using scaling factors of 1/2 and 1/4, because libjpeg v8 implements those scaling algorithms a bit differently than libjpeg v6b does, and libjpeg-turbo's SIMD extensions are based on the libjpeg v6b behavior.

-- When using chrominance subsampling, because libjpeg v8 implements this with its DCT/IDCT scaling algorithms rather than with a separate downsampling/upsampling algorithm.
-- When using the floating point IDCT, for the reasons stated above and also because the floating point IDCT algorithm was modified in libjpeg v8a to improve accuracy.

-- When decompressing using a scaling factor > 1 and merged (AKA "non-fancy" or "non-smooth") chrominance upsampling, because libjpeg v8 does not support merged upsampling with scaling factors > 1.

*******************************************************************************
**     Performance Pitfalls
*******************************************************************************

==========================
Restart Markers
==========================

The optimized Huffman decoder in libjpeg-turbo does not handle restart markers in a way that makes the rest of the libjpeg infrastructure happy, so it is necessary to use the slow Huffman decoder when decompressing a JPEG image that has restart markers. This can cause the decompression performance to drop by as much as 20%, but the performance will still be much greater than that of libjpeg. Many consumer packages, such as Photoshop, use restart markers when generating JPEG images, so images generated by those programs will experience this issue.

===============================================
Fast Integer Forward DCT at High Quality Levels
===============================================

The algorithm used by the SIMD-accelerated quantization function cannot produce correct results whenever the fast integer forward DCT is used along with a JPEG quality of 98-100. Thus, libjpeg-turbo must use the non-SIMD quantization function in those cases. This causes performance to drop by as much as 40%. It is therefore strongly advised that you use the slow integer forward DCT whenever encoding images with a JPEG quality of 98 or higher.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIh4/libjpeg-turbo-1.2.90/README-turbo.txt

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

*/
* jmorecfg.h
*
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* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains additional configuration options that customize the
* JPEG software for special applications or support machine-dependent
* optimizations. Most users will not need to touch this file.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYlW4/libjpeg-turbo-1.2.90/jmorecfg.h
No license file was found, but licenses were detected in source scan.

/*
* jdapimin.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-decompression case or the
* transcoding-only case.
*
* Most of the routines intended to be called directly by an application
* are in this file or in jdapistd.c. But also see jcomapi.c for routines
* shared by compression and decompression, and jdtrans.c for the transcoding
* case.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYlW4/libjpeg-turbo-1.2.90/jdapimin.c
No license file was found, but licenses were detected in source scan.

/*
* jdtrans.c
*
* Copyright (C) 1995-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains library routines for transcoding decompression,
* that is, reading raw DCT coefficient arrays from an input JPEG file.
* The routines in jdapimin.c will also be needed by a transcoder.
__Found in path(s):__

* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90/jdtrans.c

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

/

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  *
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  * Neither the name of the libjpeg-turbo Project nor the names of its
    contributors may be used to endorse or promote products derived from this
    software without specific prior written permission.
  *
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  * CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
  * SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
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  * CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
  * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
  * POSSIBILITY OF SUCH DAMAGE.

*/

__Found in path(s):__

* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90/jdtrans.c

* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJ.java

* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJDecompressor.java

* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90/java/TJUnitTest.java

* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJLoader.java
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90-java/org/libjpegturbo/turbojpeg/TJCompressor.java
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90/turbojpeg-jni.c
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90/java/TJExample.java

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

/*
 * jsimd_i386.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdex.inc
 *
 * This file contains the interface between the "normal" portions
 * of the library and the SIMD implementations when running on a
 * 32-bit x86 architecture.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90/simd/jsimd_i386.c

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

/*
 * jdcolor.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2011 by Guido Vollbeding.
 *
 * Modifications:
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2009, 2011-2012, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains output colorspace conversion routines.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90/jdcolor.c
No license file was found, but licenses were detected in source scan.

TurboJPEG Java Wrapper
======================

The TurboJPEG shared library can optionally be built with a Java Native Interface wrapper, which allows the library to be loaded and used directly from Java applications. The Java front end for this is defined in several classes located under org/libjpeg turbo/turbojpeg. The source code for these Java classes is licensed under a BSD-style license, so the files can be incorporated directly into both open source and proprietary projects without restriction. A Java archive (JAR) file containing these classes is also shipped with the "official" distribution packages of libjpeg-turbo.

TJExample.java, which should also be located in the same directory as this README file, demonstrates how to use the TurboJPEG Java API to compress and decompress JPEG images in memory.

Performance Pitfalls
---------------------

The TurboJPEG Java API defines several convenience methods that can allocate image buffers or instantiate classes to hold the result of compress, decompress, or transform operations. However, if you use these methods, then be mindful of the amount of new data you are creating on the heap. It may be necessary to manually invoke the garbage collector to prevent heap exhaustion or to prevent performance degradation. Background garbage collection can kill performance, particularly in a multi-threaded environment (Java pauses all threads when the GC runs.)

The TurboJPEG Java API always gives you the option of pre-allocating your own source and destination buffers, which allows you to re-use those buffers for compressing/decompressing multiple images. If the image sequence you are compressing or decompressing consists of images of the same size, then pre-allocating the buffers is recommended.

Installation Directory
----------------------

If the TurboJPEG JNI library (libturbojpeg.so, libturbojpeg.jnilib, or turbojpeg.dll) is not installed under a system library directory or under a directory specified in LD_LIBRARY_PATH (Unix) or PATH (Windows), then you will need to pass an argument of -Djava.library.path={path_to_JNI_library} to java.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-
/*
 * This file defines the application interface for the JPEG library.
 * Most applications using the library need only include this file,
 * and perhaps jerror.h if they want to know the exact error codes.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYI4W4/libjpeg-turbo-1.2.90/jpeglib.h

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

*/

/*
 * This file contains application interface code for the compression half
 * of the JPEG library. These are the "minimum" API routines that may be
 * needed in either the normal full-compression case or the transcoding-only
 * case.
 *
 * Most of the routines intended to be called directly by an application
 * are in this file or in jcapistd.c. But also see jparam.c for
 * parameter-setup helper routines, jcomapi.c for routines shared by
 * compression and decompression, and jctrans.c for the transcoding case.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYI4W4/libjpeg-turbo-1.2.90/jcapimin.c

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

/*
Open Source Used In Identity Services Engine 3.0  1080

* jcphuff.c
*
* Copyright (C) 1995-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains Huffman entropy encoding routines for progressive JPEG.
*
* We do not support output suspension in this module, since the library
* currently does not allow multiple-scan files to be written with output
* suspension.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/jcphuff.c
No license file was found, but licenses were detected in source scan.

/ *
* jidctred.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains inverse-DCT routines that produce reduced-size output:
* either 4x4, 2x2, or 1x1 pixels from an 8x8 DCT block.
*
* The implementation is based on the Loeffler, Ligtenberg and Moschytz (LL&M)
* algorithm used in jidctint.c. We simply replace each 8-to-8 1-D IDCT step
* with an 8-to-4 step that produces the four averages of two adjacent outputs
* (or an 8-to-2 step producing two averages of four outputs, for 2x2 output).
* These steps were derived by computing the corresponding values at the end
* of the normal LL&M code, then simplifying as much as possible.
*
* 1x1 is trivial: just take the DC coefficient divided by 8.
*
* See jidctint.c for additional comments.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/jidctred.c
No license file was found, but licenses were detected in source scan.

/ *
* wrjgpcom.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains a very simple stand-alone application that inserts
* user-supplied text as a COM (comment) marker in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYlW4/libjpeg-turbo-1.2.90/wrjpgcom.c
No license file was found, but licenses were detected in source scan.

/ *
* cderro.h
* 
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file defines the error and message codes for the cjpeg/djpeg
* applications. These strings are not needed as part of the JPEG library
* proper.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYlW4/libjpeg-turbo-1.2.90/cderro.h
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/ *
* jsimd_arm.c
* 
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
* 
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
* 
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on
* ARM architecture.
* 
* Based on the stubs from 'jsimd_none.c'
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYlW4/libjpeg-turbo-1.2.90/simd/jsimd_arm.c

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IJG JPEG LIBRARY: CODING RULES

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Since numerous people will be contributing code and bug fixes, it's important 
to establish a common coding style. The goal of using similar coding styles 
is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding 
Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and 
Brader). This document is available in the IJG FTP archive (see 

Block comments should be laid out thusly:

/*
 * Block comments in this style.
 */

We indent statements in K&R style, e.g.,
if (test) {
    then-part;
} else {
    else-part;
}

with two spaces per indentation level. (This indentation convention is 
handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g.,
multi_word_name (not multiWordName). Preprocessor symbols and enum constants 
are similar but upper case (MULTI_WORD_NAME). Names should be unique within 
the first fifteen characters. (On some older systems, global names must be 
unique within six characters. We accommodate this without cluttering the 
source code by using macros to substitute shorter names.)
We use function prototypes everywhere; we rely on automatic source code
transformation to feed prototype-less C compilers. Transformation is done
by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript).
ansi2knr is not very bright, so it imposes a format requirement on function
declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions
should be written in the following style:

LOCAL(int *)
function_name (int a, char *b)
{
  code...
}

Note that each function definition must begin with GLOBAL(type), LOCAL(type),
or METHODDEF(type). These macros expand to "static type" or just "type" as
appropriate. They provide a readable indication of the routine's usage and
can readily be changed for special needs. (For instance, special linkage
keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in
structs). We handle these with a macro JMETHOD, defined as

#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist)  type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist)  type (*methodname) ()
#endif

which is used like this:

struct function_pointers {
  JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
  JMETHOD(void, term_entropy_encoder, (void));
};

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations
(see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype
declaration to coerce actual parameters into the right types. Therefore, use
explicit casts on actual parameters whenever the actual parameter type is not
identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator
is defined to return int, yet size_t is defined as long. Needless to say,
this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(),
so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore,
we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cj Peg.c and dj Peg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/coderules.txt
No license file was found, but licenses were detected in source scan.

/*
 * jpostct.c

 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.

 * This file contains the decompression postprocessing controller.
 * This controller manages the upsampling, color conversion, and color
 * quantization/reduction steps; specifically, it controls the buffering
* between upsample/color conversion and color quantization/reduction.
* If no color quantization/reduction is required, then this module has no
  work to do, and it just hands off to the upsample/color conversion code.
* An integrated upsample/convert/quantize process would replace this module
  entirely.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/jdpostct.c
No license file was found, but licenses were detected in source scan.

*/
* jaricom.c
*
* Developed 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains probability estimation tables for common use in
* arithmetic entropy encoding and decoding routines.
* This data represents Table D.2 in the JPEG spec (ISO/IEC IS 10918-1
  and CCITT Recommendation ITU-T T.81) and Table 24 in the JBIG spec
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/jaricom.c
No license file was found, but licenses were detected in source scan.

Package: {__PKGNAME}
Version: {__VERSION}-{__BUILD}
Section: misc
Priority: optional
Architecture: {__ARCH}
Essential: no
Maintainer: The libjpeg-turbo Project [http://www.libjpeg-turbo.org]
Description: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2,
NEON) to accelerate baseline JPEG compression and decompression on x86,
x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as
fast as libjpeg, all else being equal. On other types of systems,
libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue
of its highly-optimized Huffman coding routines. In many cases, the
performance of libjpeg-turbo rivals that of proprietary high-speed JPEG
codecs.

Libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. Libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

Libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/release/deb-control.tmpl

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

/*
 * jdct.h
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This include file contains common declarations for the forward and
 * inverse DCT modules. These declarations are private to the DCT managers
 * (jcdctmgr.c, jddctmgr.c) and the individual DCT algorithms.
 * The individual DCT algorithms are kept in separate files to ease
 * machine-dependent tuning (e.g., assembly coding).
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/jdct.h

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

/*
 * jfdctint.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a slow-but-accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT on each column. Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

* This implementation is based on an algorithm described in
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one multiplication; this allows a very simple and accurate implementation in scaled fixed-point arithmetic, with a minimal number of shifts.

*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYlW4/libjpeg-turbo-1.2.90/jfdctint.c
No license file was found, but licenses were detected in source scan.

/*
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*
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*
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* - Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* - Neither the name of the libjpeg-turbo Project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS", AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
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*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxBGRju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/jdtest.c
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxBGRju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJScalingFactor.java
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxBGRju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJCustomFilter.java
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxBGRju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJTransform.java
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxBGRju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/tjutil.c
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxBGRju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/tjutil.h
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxBGRju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/JJloader.java.in
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxBGRju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/tjutil.h
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxBGRju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/JJTransformer.java
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxBGRju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/tjutil.h

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

/*
* jdmerge.c
* 
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains code for merged upsampling/color conversion.
* 
* This file combines functions from jdsample.c and jdcolor.c;
* read those files first to understand what's going on.
* 
* When the chroma components are to be upsampled by simple replication
* (ie, box filtering), we can save some work in color conversion by
* calculating all the output pixels corresponding to a pair of chroma
* samples at one time. In the conversion equations
*R = Y + K1 * Cr
*G = Y + K2 * Cb + K3 * Cr
*B = Y + K4 * Cb
* only the Y term varies among the group of pixels corresponding to a pair
* of chroma samples, so the rest of the terms can be calculated just once.
* At typical sampling ratios, this eliminates half or three-quarters of the
* multiplications needed for color conversion.
*
* This file currently provides implementations for the following cases:
* YCbCr => RGB color conversion only.
* Sampling ratios of 2h1v or 2h2v.
* No scaling needed at upsample time.
* Corner-aligned (non-CCIR601) sampling alignment.
* Other special cases could be added, but in most applications these are
* the only common cases. (For uncommon cases we fall back on the more
* general code in jdsample.c and jdcolor.c.)
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxBgrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRy1W4/libjpeg-turbo-1.2.90/jdmerge.c
No license file was found, but licenses were detected in source scan.

libjpeg-turbo note: This image was extracted from the 8-bit nightshot_iso_100
image. The original can be downloaded at the link below.

The New Image Compression Test Set - Jan 2008
http://www.imagecompression.info/test_images

The images historically used for compression research (lena, barbra, pepper etc...) have outlived their useful life and
its about time they become a part of history only. They are too small, come from data sources too old and are
available in only 8-bit precision.

These images have been carefully selected to aid in image compression algorithm research and evaluation. These are
photographic images chosen to come from a wide variety of sources and each one picked to stress different aspects
of algorithms. Images are available in 8-bit, 16-bit and 16-bit linear variations, RGB and gray.

Images are available without any prohibitive copyright restrictions.

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1. The origin of the pictures must not be misrepresented; you must not claim that you took the original pictures. If
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2. Altered versions must be plainly marked as such, and must not be misinterpreted as being the originals.
3. No payment is required for distribution this material, it must be available freely under the conditions stated here.
That is, it is prohibited to sell the material.
4. This notice may not be removed or altered from any distribution.

Acknowledgments: A lot of people contributed a lot of time and effort in making this test set possible. Thanks to everyone who voiced their opinion in any of the discussions online. Thanks to Axel Becker, Thomas Richter and Niels Fröhling for their extensive help in picking images, running all the various tests etc... Thanks to Pete Fraser, Tony Story, Wayne J. Cosshall, David Coffin, Bruce Lindbloom and raw.fotosite.pl for the images which make up this set.

Sachin Garg [India]
sachingarg@c10n.info


libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.
No license file was found, but licenses were detected in source scan.

/*
 * jdarith.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy decoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYlW4/libjpeg-turbo-1.2.90/jdarith.c

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/*
 * jmembmgr.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the JPEG system-independent memory management
 * routines. This code is usable across a wide variety of machines; most
 * of the system dependencies have been isolated in a separate file.
 * The major functions provided here are:
 * * pool-based allocation and freeing of memory;
 * * policy decisions about how to divide available memory among the
 *     virtual arrays;
 * * control logic for swapping virtual arrays between main memory and
 *     backing storage.
 * The separate system-dependent file provides the actual backing-storage
 * access code, and it contains the policy decision about how much total
 * main memory to use.
 * This file is system-dependent in the sense that some of its functions
 * are unnecessary in some systems. For example, if there is enough virtual
 * memory so that backing storage will never be used, much of the virtual
 * array control logic could be removed. (Of course, if you have that much
 * memory then you shouldn't care about a little bit of unused code...)
 */
/*
 * rdswitch.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to process some of cjpeg's more complicated
 * command-line switches. Switches processed here are:
 * -qtables file  Read quantization tables from text file
 * -scans file   Read scan script from text file
 * -quality N,N,... Set quality ratings
 * -qslots N,N,... Set component quantization table selectors
 * -sample HxV,HxV,... Set component sampling factors
 */

/*
 * jcmainct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for compression.
*/
* The main buffer lies between the pre-processor and the JPEG compressor proper; it holds downsampled data in the JPEG colorspace.

*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/jcmainct.c

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

/ *
* jdapistd.c
*

* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-decompression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_decompress, it will end up linking in the entire decompressor.
* We thus must separate this file from jdapimin.c to avoid linking the
* whole decompression library into a transcoder.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/jdapistd.c

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/ *
* jchuff.h
*

* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains declarations for Huffman entropy encoding routines
* that are shared between the sequential encoder (jchuff.c) and the
* progressive encoder (jcphuff.c). No other modules need to see these.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/jchuff.h
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/*
 * jquant1.c
 *
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 * Modifications:
 * Copyright (C) 2009, D. R. Commander
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains 1-pass color quantization (color mapping) routines.
 * These routines provide mapping to a fixed color map using equally spaced
 * color values. Optional Floyd-Steinberg or ordered dithering is available.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/jquant1.c
No license file was found, but licenses were detected in source scan.

/*
 * jsimd.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2011 D. R. Commander
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 * /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/jsimd.h
No license file was found, but licenses were detected in source scan.

/*
 * jfdctfst.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains a fast, not so accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 */
A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT on each column. Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

This implementation is based on Arai, Agui, and Nakajima's algorithm for scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in Japanese, but the algorithm is described in the Pennebaker & Mitchell JPEG textbook (see REFERENCES section in file README). The following code is based directly on figure 4-8 in P&M.

While an 8-point DCT cannot be done in less than 11 multiplies, it is possible to arrange the computation so that many of the multiplies are simple scalings of the final outputs. These multiplies can then be folded into the multiplications or divisions by the JPEG quantization table entries. The AA&N method leaves only 5 multiplies and 29 adds to be done in the DCT itself.

The primary disadvantage of this method is that with fixed-point math, accuracy is lost due to imprecise representation of the scaled quantization values. The smaller the quantization table entry, the less precise the scaled value, so this implementation does worse with high-quality-setting files than with low-quality ones.

The primary disadvantage of this method is that with fixed-point math, accuracy is lost due to imprecise representation of the scaled quantization values. The smaller the quantization table entry, the less precise the scaled value, so this implementation does worse with high-quality-setting files than with low-quality ones.

*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90/fdctfst.c

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

/*
 * wrrle.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 *
 * These routines may need modification for non-Unix environments or specialized applications. As they stand, they assume output to an ordinary stdio stream.
 *
 * Based on code contributed by Mike Lijewski,
 * with updates from Robert Hutchinson.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90/wrrle.c
No license file was found, but licenses were detected in source scan.

/*
 * jddctmgr.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2010 by Guido Vollbeding.
 * Modifications:
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the inverse-DCT management logic.
 * This code selects a particular IDCT implementation to be used,
 * and it performs related housekeeping chores. No code in this file
 * is executed per IDCT step, only during output pass setup.
 *
 * Note that the IDCT routines are responsible for performing coefficient
 * dequantization as well as the IDCT proper. This module sets up the
 * dequantization multiplier table needed by the IDCT routine.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYlW4/libjpeg-turbo-1.2.90/jddctmgr.c
No license file was found, but licenses were detected in source scan.

/*
 * rdjpgcom.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2009 by Bill Allombert, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a very simple stand-alone application that displays
 * the text in COM (comment) markers in a JFIF file.
 * This may be useful as an example of the minimum logic needed to parse
 * JPEG markers.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYlW4/libjpeg-turbo-1.2.90/rdjpgcom.c
No license file was found, but licenses were detected in source scan.
* jinclud.h
*
* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file exists to provide a single place to fix any problems with
* including the wrong system include files. (Common problems are taken
* care of by the standard jconfig symbols, but on really weird systems
* you may have to edit this file.)
* *
* NOTE: this file is NOT intended to be included by applications using the
* JPEG library. Most applications need only include jpeglib.h.
*/

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

/*
* jdhuff.h
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains declarations for Huffman entropy decoding routines
* that are shared between the sequential decoder (jdhuff.c) and the
* progressive decoder (jdphuff.c). No other modules need to see these.
*/

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

/*
* wrppm.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains routines to write output images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/wrppm.c
No license file was found, but licenses were detected in source scan.

/*
* jdatadst.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2012 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains compression data destination routines for the case of
* emitting JPEG data to memory or to a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different destination manager.
* IMPORTANT: we assume that fwrite() will correctly transcribe an array of
* JOCTETs into 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/jdatadst.c
No license file was found, but licenses were detected in source scan.

/*
* jcmaster.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2003-2010 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains master control logic for the JPEG compressor.
* These routines are concerned with parameter validation, initial setup,
* and inter-pass control (determining the number of passes and the work
* to be done in each pass).
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxBGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/jcmaster.c
No license file was found, but licenses were detected in source scan.

/*
 * jerror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the error and message codes for the JPEG library.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 * A set of error-reporting macros are defined too. Some applications using
 * the JPEG library may wish to include this file to get the error codes
 * and/or the macros.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxBGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/jerror.h
No license file was found, but licenses were detected in source scan.

/*
 * cdjpeg.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains common declarations for the sample applications
 * cjpeg and djpeg. It is NOT used by the core JPEG library.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxBGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/cdjpeg.h
No license file was found, but licenses were detected in source scan.
/* * wrgif.c * * Copyright (C) 1991-1997, Thomas G. Lane. * This file is part of the Independent JPEG Group's software. * For conditions of distribution and use, see the accompanying README file. * * This file contains routines to write output images in GIF format. * ******************************************************************************* * NOTE: to avoid entanglements with Unisys' patent on LZW compression, * this code has been modified to output "uncompressed GIF" files. * * There is no trace of the LZW algorithm in this file. * ************************************************************************** * These routines may need modification for non-Unix environments or * specialized applications. As they stand, they assume output to * an ordinary stdio stream. */ /* This code is loosely based on ppmtogif from the PBMPLUS distribution * of Feb. 1991. That file contains the following copyright notice: * Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>. * Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al. * Copyright (C) 1989 by Jef Poskanzer. * Permission to use, copy, modify, and distribute this software and its * documentation for any purpose and without fee is hereby granted, provided * that the above copyright notice appear in all copies and that both that * copyright notice and this permission notice appear in supporting * documentation. This software is provided "as is" without express or * implied warranty. * * We are also required to state that * "The Graphics Interchange Format(c) is the Copyright property of * CompuServe Incorporated. GIF(sm) is a Service Mark property of * CompuServe Incorporated." */ Found in path(s): /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYlW4/libjpeg-turbo-1.2.90/wrgif.c No license file was found, but licenses were detected in source scan. /* * transupp.h * * Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding. * This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains declarations for image transformation routines and
* other utility code used by the jpegtran sample application. These are
* NOT part of the core JPEG library. But we keep these routines separate
* from jpegtran.c to ease the task of maintaining jpegtran-like programs
* that have other user interfaces.
* 
* NOTE: all the routines declared here have very specific requirements
* about when they are to be executed during the reading and writing of the
* source and destination files. See the comments in transupp.c, or see
* jpegtran.c for an example of correct usage.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYlW4/libjpeg-turbo-1.2.90/transupp.h
No license file was found, but licenses were detected in source scan.

/*
 * jcinit.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains initialization logic for the JPEG compressor.
 * This routine is in charge of selecting the modules to be executed and
 * making an initialization call to each one.
 *
 * Logically, this code belongs in jcmaster.c. It's split out because
 * linking this routine implies linking the entire compression library.
 * For a transcoding-only application, we want to be able to use jcmaster.c
 * without linking in the whole library.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYlW4/libjpeg-turbo-1.2.90/jcinit.c
No license file was found, but licenses were detected in source scan.

/*
 * jpegcomp.h
 *
 * Copyright (C) 2010, D. R. Commander
 * For conditions of distribution and use, see the accompanying README file.
 *
 * JPEG compatibility macros
* These declarations are considered internal to the JPEG library; most
  applications using the library shouldn't need to include this file.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRY1W4/libjpeg-turbo-1.2.90/jpegcomp.h
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NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN
IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.\n}
No license file was found, but licenses were detected in source scan.

; jsimdext.inc - common declarations
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; Copyright 2010 D. R. Commander
;
; Based on
; x86 SIMD extension for IJG JPEG library - version 1.02
;
; Copyright (C) 1999-2006, MIYASAKA Masaru.
;
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; warranty. In no event will the authors be held liable for any damages
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; appreciated but is not required.
; 2. Altered source versions must be plainly marked as such, and must not be
; misrepresented as being the original software.
; 3. This notice may not be removed or altered from any source distribution.
;
; System-dependent configurations

%ifdef WIN32; ----(nasm -fwin32 -DWIN32 ...)--------
 ; * Microsoft Visual C++
 ; * MinGW (Minimalist GNU for Windows)
 ; * CygWin
 ; * LCC-Win32

; -- segment definition --
;
%ifdef __YASM_VER__
%define SEG_TEXT .text align=16
%define SEG_CONST .rdata align=16
%else
%define SEG_TEXT .text align=16 public use32 class=CODE
elifdef AOUT; ----(nasm -faoutb/aout -DAOUT ...)----
; * Older Linux using a.out format (nasm -faout -DAOUT ...)
; * *BSD family Unix using a.out format (nasm -faoutb -DAOUT ...)

; -- segment definition --
;
%define SEG_TEXT .text
%define SEG_CONST .data

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL __GLOBAL_OFFSET_TABLE__; BSD-style a.out supports PIC

elifdef MACHO; ----(nasm -fmacho -DMACHO ...)--------
; * NeXTstep/OpenStep/Rhapsody/Darwin/MacOS X (Mach-O format)

; -- segment definition --
;
%define SEG_TEXT .text ;align=16; nasm doesn't accept align=16. why?
%define SEG_CONST .rodata align=16

; The generation of position-independent code (PIC) is the default on Darwin.
;
%define PIC
%define GOT_SYMBOL _MACHO_PIC_; Mach-O style code-relative addressing

else; ----(Other case)----------------------

; -- segment definition --
;
%define SEG_TEXT .text
%define SEG_CONST .data

%endif; ----------------------------------------------

; ==========================================================================
; --------------------------------------------------------------------------
; Common types
;
%ifdef __x86_64__
%define POINTER                 qword           ; general pointer type
%define SIZEOF_POINTER          SIZEOF_QWORD    ; sizeof(POINTER)
%define POINTER_BIT             QWORD_BIT       ; sizeof(POINTER)*BYTE_BIT
%else
%define POINTER                 dword           ; general pointer type
%define SIZEOF_POINTER          SIZEOF_DWORD    ; sizeof(POINTER)
%define POINTER_BIT             DWORD_BIT       ; sizeof(POINTER)*BYTE_BIT
%endif

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%endif

%define INT        dword    ; signed integer type
%define SIZEOF_INT SIZEOF_DWORD ; sizeof(INT)
%define INT_BIT    DWORD_BIT ; sizeof(INT)*BYTE_BIT

%define FP32       dword    ; IEEE754 single
%define SIZEOF_FP32 SIZEOF_DWORD ; sizeof(FP32)
%define FP32_BIT   DWORD_BIT ; sizeof(FP32)*BYTE_BIT

%define MMWORD     qword    ; int64  (MMX register)
%define SIZEOF_MMWORD SIZEOF_QWORD ; sizeof(MMWORD)
%define MMWORD_BIT QWORD_BIT ; sizeof(MMWORD)*BYTE_BIT

%define XMMWORD                             ; int128 (SSE register)
%define SIZEOF_XMMWORD SIZEOF_QWORD         ; sizeof(XMMWORD)
%define XMMWORD_BIT QWORD_BIT               ; sizeof(XMMWORD)*BYTE_BIT

; Similar hacks for when we load a dword or MMWORD into an xmm# register
%define XMM_DWORD
%define XMM_MMWORD

%define SIZEOF_BYTE  1     ; sizeof(BYTE)
%define SIZEOF_WORD  2     ; sizeof(WORD)
%define SIZEOF_DWORD 4     ; sizeof(DWORD)
%define SIZEOF_QWORD 8     ; sizeof(QWORD)
%define SIZEOF_QWORD 16    ; sizeof(QWORD)
%define SIZEOF_QWORD 32    ; sizeof(QWORD)*BYTE_BIT
%define SIZEOF_QWORD 64    ; sizeof(QWORD)*BYTE_BIT
%define SIZEOF_QWORD 128   ; sizeof(QWORD)*BYTE_BIT
%define BYTE_BIT     8     ; CHAR_BIT in C
%define WORD_BIT     16    ; sizeof(WORD)*BYTE_BIT
%define DWORD_BIT    32    ; sizeof(DWORD)*BYTE_BIT
%define QWORD_BIT    64    ; sizeof(QWORD)*BYTE_BIT
%define QWORD_BIT    128   ; sizeof(QWORD)*BYTE_BIT

; External Symbol Name
;
%ifndef EXTN
%define EXTN(name) _ %+ name	; foo() -> _foo
%endif

; Macros for position-independent code (PIC) support
;
%ifndef GOT_SYMBOL
%undef PIC
%endif
At present, nasm doesn't seem to support PIC generation for Mach-O.
The PIC support code below is a little tricky.

SECTION SEG_CONST
const_base:

%define GOTOFF(got,sym) (got) + (sym) - const_base

%imacro get_GOT
; NOTE: this macro destroys ecx resister.
call%%geteip
addecx, byte (%%ref - $)
jmpshort %%adjust
%%%geteip:
mov ecx, POINTER [esp]
ret
%%%adjust:
pushebp
xorebp,ebp; ebp = 0
%ifidni %1,ebx; (%1 == ebx)
; db 0x8D,0x9C + jmp near const_base =
; lea ebx, [ecx+ebp*8+(const_base-%%ref)] ; 8D,9C,E9,(offset32)
db0x8D,0x9C; 8D,9C
jmpnear const_base; E9,(const_base-%%ref)
%%%ref:
%else ; (%1 != ebx)
; db 0x8D,0x8C + jmp near const_base =
; lea ecx, [ecx+ebp*8+(const_base-%%ref)] ; 8D,8C,E9,(offset32)
db0x8D,0x8C; 8D,8C
jmpnear const_base; E9,(const_base-%%ref)
%%%ref:mov%1, ecx
%%%endif ; (%1 == ebx)
popebp
%endmacro

%else; GOT_SYMBOL != _MACHO_PIC_ ---------------

%define GOTOFF(got,sym) (got) + (sym) wrt ..gotoff

%imacro get_GOT
externGOT_SYMBOL
call%%geteip
add%1, GOT_SYMBOL + $$ - $ wrt ..gotpc
jmp short %%done
%%geteip:
mov%1, POINTER [esp]
ret
%%done:
%endmacro

%endif; GOT_SYMBOL == _MACHO_PIC_ ---------------

%imacro pushpic1.nolist
push%1
%endmacro
%imacro poppic1.nolist
pop%1
%endmacro
%imacro movpic2.nolist
mov%1,%2
%endmacro

%else; !PIC ---------------------------------------

%define GOTOFF(got,sym) (sym)

%imacro get_GOT1.nolist
%endmacro
%imacro pushpic1.nolist
%endmacro
%imacro poppic1.nolist
%endmacro
%imacro movpic2.nolist
%endmacro
%endmacro

%endif; PIC ---------------------------------------

; ------------------------------------------------------------------------
; Align the next instruction on {2,4,8,16,...}-byte boundary.
; ".balign n,m" in GNU as
;
%define MSKLE(x,y)  (~(((y) & 0xFFFF) - ((x) & 0xFFFF)) >> 16)
%define FILLB(b,n)  (($$-(b)) & ((n)-1))

%imacro alignx 1-2.nolist 0xFFFF
%%bs:
times MSKLE(FILLB(%%bs,%1),%2) & MSKLE(16,FILLB($,%1)) & FILLB($,%1) 
  db 0x90                               ; nop
  times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/9 
    db 0x8D,0x9C,0x23,0x00,0x00,0x00,0x00 ; lea ebx,[ebx+0x00000000]
  times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/7
db 0x8D,0x8D,0x00,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
times MSKLE(FILLB(%bS,%1),%2) & FILLB(S,%1)/6 
  db 0x8D,0x8D,0x00,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
times MSKLE(FILLB(%bS,%1),%2) & FILLB(S,%1)/4 
  db 0x8D,0x8D,0x00,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
times MSKLE(FILLB(%bS,%1),%2) & FILLB(S,%1)/3 
  db 0x8D,0x8D,0x00,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
times MSKLE(FILLB(%bS,%1),%2) & FILLB(S,%1)/2 
  db 0x8B,0xED ; mov ebp,ebp 
times MSKLE(FILLB(%bS,%1),%2) & FILLB(S,%1)/1 
  db 0x90 ; nop 
%endmacro

; Align the next data on {2,4,8,16,...}-byte boundary.
:
%imacro alignz
align %1, db 0; filling zeros
%endmacro

%ifdef __x86_64__
%ifdef WIN64

%imacro collect_args 0
push r12
push r13
push r14
push r15
mov r10, rcx
mov r11, rdx
mov r12, r8
mov r13, r9
mov r14, [rax+48]
mov r15, [rax+56]
push rsi
push rdi
sub     rsp, SIZEOF_XMMWORD
movaps  XMMWORD [rsp], xmm6
sub     rsp, SIZEOF_XMMWORD
movaps  XMMWORD [rsp], xmm7
%endmacro

%imacro uncollect_args 0
movaps  xmm7, XMMWORD [rsp]
add     rsp, SIZEOF_XMMWORD
movaps  xmm6, XMMWORD [rsp]
add     rsp, SIZEOF_XMMWORD
pop     rdi
pop rsi
pop r15
pop r14
pop r13
pop r12
%endmacro

%else

%imacro collect_args 0
push r10
push r11
push r12
push r13
push r14
push r15
mov r10, rdi
mov r11, rsi
mov r12, rdx
mov r13, rcx
mov r14, r8
mov r15, r9
%endmacro

%imacro uncollect_args 0
pop r15
pop r14
pop r13
pop r12
pop r11
pop r10
%endmacro

%endif

%endif

; --------------------------------------------------------------------------
;  Defines picked up from the C headers
;
%include "jsimdcfg.inc"

; --------------------------------------------------------------------------

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYlW4/libjpeg-turbo-1.2.90/simd/jsimdext.inc
No license file was found, but licenses were detected in source scan.

/*
 * jcarith.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy encoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYlW4/libjpeg-turbo-1.2.90/jcarith.c

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/*
 * jcprepct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the compression preprocessing controller.
 * This controller manages the color conversion, downsampling,
 * and edge expansion steps.
 *
 * Most of the complexity here is associated with buffering input rows
 * as required by the downsampler. See the comments at the head of
 * jcsample.c for the downsampler's needs.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYlW4/libjpeg-turbo-1.2.90/jcprepct.c

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; more details.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-
archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90/simd/jfss2int-64.asm

* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90/simd/jiss2int-64.asm

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 *
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 *
 * This file contains Huffman entropy decoding routines.
 *
 * Much of the complexity here has to do with supporting input suspension.
 * If the data source module demands suspension, we want to be able to back
 * up to the start of the current MCU. To do this, we copy state variables
 * into local working storage, and update them back to the permanent
 * storage only upon successful completion of an MCU.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYIW4/libjpeg-turbo-1.2.90/jdhuff.c

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 * jmemsys.h
 *
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This include file defines the interface between the system-independent and system-dependent portions of the JPEG memory manager. No other modules need include it. (The system-independent portion is jmemmgr.c; there are several different versions of the system-dependent portion.)

This file works as-is for the system-dependent memory managers supplied in the IJG distribution. You may need to modify it if you write a custom memory manager. If system-dependent changes are needed in this file, the best method is to #ifdef them based on a configuration symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR and USE_MAC_MEMMGR.

*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYI4W4/libjpeg-turbo-1.2.90/jmemsys.h
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*/
* rdrle.c
*
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*
* This file contains routines to read input images in Utah RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
*
* These routines may need modification for non-Unix environments or specialized applications. As they stand, they assume input from an ordinary stdin stream. They further assume that reading begins at the start of the file; start_input may need work if the user interface has already read some data (e.g., to determine that the file is indeed RLE format).
*
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYI4W4/libjpeg-turbo-1.2.90/rdrle.c
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* jdccoefct.c
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* This file contains the coefficient buffer controller for decompression.
* This controller is the top level of the JPEG decompressor proper.
* The coefficient buffer lies between entropy decoding and inverse-DCT steps.
*
* In buffered-image mode, this controller is the interface between
* input-oriented processing and output-oriented processing.
* Also, the input side (only) is used when reading a file for transcoding.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYlW4/libjpeg-turbo-1.2.90/jdcoefct.c
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 *
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*
* This file contains the main buffer controller for decompression.
* The main buffer lies between the JPEG decompressor proper and the
* post-processor; it holds downsampled data in the JPEG colorspace.
*
* Note that this code is bypassed in raw-data mode, since the application
* supplies the equivalent of the main buffer in that case.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035325673_1589189275.36/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-RLxbGrju/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-HuIRYlW4/libjpeg-turbo-1.2.90/jdmainct.c
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 * jcapistd.c
 *
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This file contains application interface code for the compression half of the JPEG library. These are the "standard" API routines that are used in the normal full-compression case. They are not used by a transcoding-only application. Note that if an application links in jpeg_start_compress, it will end up linking in the entire compressor. We thus must separate this file from jcapimin.c to avoid linking the whole compression library into a transcoder.

/*
 * jcapi.c
 *
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 *
 * This file implements djpeg's "-map file" switch. It reads a source image and constructs a colormap to be supplied to the JPEG decompressor.
 *
 * Currently, these file formats are supported for the map file:
 * GIF: the contents of the GIF's global colormap are used.
 * PPM (either text or raw flavor): the entire file is read and each unique pixel value is entered in the map.
 * Note that reading a large PPM file will be horrendously slow.
 * Typically, a PPM-format map file should contain just one pixel of each desired color. Such a file can be extracted from an ordinary image PPM file with ppmtomap(1).
 *
 * Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not currently implemented.
 */

/* Portions of this code are based on the PBMPLUS library, which is:
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1.60 spring-orm 5.1.3.RELEASE

1.61 perl-getopt-long 2.40 3.el7

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1.62 concurrent 1.3.4

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History:
Date   Who  What
21Jun1998 dl  Create public version
9Oct1999 dl  faster equals
29jun2001 dl  Serialization methods now private

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History:
Date   Who  What
28oct1999 dl  Created
14dec1999 dl  jmm snapshot
19apr2000 dl  use barrierLock
12jan2001 dl  public release
17nov2001 dl  Minor tunings
20may2002 dl  BarrierLock can now be serialized.
09dec2002 dl  Fix interference checks.
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History:
Date       Who                What
26nov2000  dl               Created, based on ConcurrentReaderHashMap  
12jan2001  dl               public release  
17nov2001  dl               Minor tunings  
24oct2003  dl               Segment implements Serializable

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout---------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
--------------

Create 1st primary partition

ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout--------

__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td>__ts_dev__1</td>
<td></td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
</tbody>
</table>

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

Create 2st primary partition

1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type

2d8e8df1f51a88a045db233418dd73fbe bsd.img

---layout--------

__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
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<tr>
<td>__ts_dev__1</td>
<td></td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
<tr>
<td>__ts_dev__2</td>
<td></td>
<td>4096</td>
<td>20479</td>
<td>8192</td>
<td>a5</td>
<td>FreeBSD</td>
</tr>
</tbody>
</table>

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

Create default BSD

2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

4 partitions:

# start  end  size  fstype [fsise bsize cpg]
c: 4096 20479 16384 unused 0 0
d: 0 16064 16065 unused 0 0

BSD disklabel command (m for help):
Command (m for help):
-------------------

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#       start       end      size     fstype   [fsize bsize   cpg]
a:     4096      6144      2049     4.2BSD        0     0     0
 c:     4096     20479     16384     unused        0     0
d:        0     16064     16065     unused        0     0

BSD disklabel command (m for help):
Command (m for help):
-------------------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0  unused           5  4.1BSD         9  4.4LFS         d  boot
1  swap             6  Eighth Edition  a  unknown       e  ADOS
2  Version 6        7  4.2BSD         b  HPFS          f  HFS
3  Version 7        8  MS-DOS          c  ISO-9660      10  AdvFS
4  System V

BSD disklabel command (m for help):
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Initialize empty image
f1c9645db14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout---------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
------------------
Create 1st primary partition
ada64ace122978d000d1d1c0e5ee45d26 bsd.img

---layout---------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
------------------
__ts_dev__1 2048 4095 1024 83 Linux

Create 2st primary partition
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd73fbe bsd.img

---layout---------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001
Device Boot  Start  End  Blocks  Id  System
__ts_dev__1   2048  4095   1024   83  Linux
__ts_dev__2   4096  20479  8192  a5  FreeBSD

Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#  start  end  size  fstype  [fs size bs size cpg]
c:  4096  20479  16384  unused  0  0
d:  0  16064  16064  unused  0  0

BSD disklabel command (m for help):
Command (m for help):

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#  start  end  size  fstype  [fs size bs size cpg]
a:  4096  6144  2049  4.2BSD  0  0  0
c:  4096  20479  16384  unused  0  0
d:  0  16064  16064  unused  0  0

BSD disklabel command (m for help):
Command (m for help):

-------------------
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0  unused           5  4.1BSD           9  4.4LFS           d  boot
1  swap             6  Eighth Edition  a  unknown          e  ADOS
2  Version 6        7  4.2BSD           b  HPFS             f  HFS
3  Version 7        8  MS-DOS           c  ISO-9660        10  AdvFS
4  System V

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in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
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   If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a
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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception,
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---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
-------------------
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
-------------------
__ts_dev__ 1 2048 4095 1024 83 Linux

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbd bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
-------------------
__ts_dev__ 1 2048 4095 1024 83 Linux
__ts_dev__ 2 4096 20479 8192 a5 FreeBSD

Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img
Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#  start   end    size   fstype  [fsizel bsize   cpg]
c:  4096   20479  16384   unused  0     0
   d:      0   16064  16065   unused  0     0

BSD disklabel command (m for help):
Command (m for help):

-------------------
b5c121c2091b2ff26b880551feac7112 bsd.img

Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#  start   end    size   fstype  [fsizel bsize   cpg]
a:  4096   6144   2049   4.2BSD   0     0     0
c:  4096   20479  16384   unused  0     0
   d:  0   16064  16065   unused  0     0

BSD disklabel command (m for help):
Command (m for help):

-------------------
Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
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size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---

#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

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Version 2, June 1991

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

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*/

size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0

---

#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PowerShell 6.0

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfff2bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and piostream classes and tests found in the Boost.Process library.

  Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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1.89 elfutils-default-yama-scope 0.176-2.el7

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

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

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

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

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

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

@item
As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

@enumerate
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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

@item
Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
@end enumerate

For an executable, the required form of the ``work that uses the Library'' must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

@enumerate a
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Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
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Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
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@end enumerate

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@heading END OF TERMS AND CONDITIONS
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@end ifex

@appendixsubsec How to Apply These Terms to Your New Libraries

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You should also get your employer (if you work as a programmer) or your school, if any, to sign a ``copyright disclaimer'' for the library, if necessary. Here is a sample; alter the names:

```
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Ty Coon, President of Vice
```

That's all there is to it!

Jan 21, 2002

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Version 2.1, February 1999

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

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^L

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

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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@enumerate 0
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@end enumerate

@end enumerate

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

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

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

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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Jan 21, 2002

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@heading TERMS AND CONDITIONS

@enumerate 0
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@enumerate a
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* m4/ax_func_which_gethostbyname_r.m4

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That's all there is to it!
This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson (jep@ntime.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlson (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Jansen (jansen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttenen (Ari.Huttenen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

1.93 cucumber-core 1.2.4

1.94 python-configobj 4.7.2 7.el7

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1.97 mtd-utils fio-3.1-2.el7

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>>> boost-1.47.0
>>> boost-1.55.0
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>>> gotourl function by stuart patterson-none
>>> icu-data-4.4-1
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>>> zip-2.32
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>>> freetype-2.4.10-1
>>> libdnet-1.11
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>>> libffi-3.0.9
>>> libpng-1.2.50
>>> libview-0.7.0
>>> libxdr-openbsd-4.3
>>> libxml2-2.8.0-1
>>> pcsc-lite-1.4.4
>>> pixman-0.11.6
>>> pixman-0.21.6
>>> protobuf-2.3.0
>>> uriparser-0.7.0
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>>> zip-2.32
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>>> libfuse-2.5.3
>>> libgtop-2.14.9
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>>> vmblock-none
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>>> redhat-rpm-config-9.0.3

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kmodtool - Helper script for building kernel module RPMs
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base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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>>> boost-1.47.0

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2009-10-04, guwi17: modified and extended to meet uBLAS’ needs

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libXinerama.so.1
libXrender.so.2
libXrandr.so.2
libatk-1.0.so.0
libatkmm-1.6.so.1
libcairo.so.2
libcairomm-1.0.so.1
libconf
libdnet.so.1
libexpat.so.6
libfontconfig.so.1
libfreetype.so.9
libgcc_s.so.1
libgdk-x11-2.0.so.0
libgdk_pixbuf-2.0.so.0
libgdk_pixbuf_xlib-2.0.so.0
libgdkmm-2.4.so.1
libglib-2.0.so.0
libglibmm-2.4.so.1
libglibmm_generate_extra_defs-2.4.so.1
libgmodule-2.0.so.0
libgobject-2.0.so.0
libgthread-2.0.so.0
libgtk-x11-2.0.so.0
libgtkmm-2.4.so.1
libiconv.so.3
libintl.so.8
libpango-1.0.so.0
libpangocairo-1.0.so.0
libpangoft2-1.0.so.0
libpangomm-1.4.so.1
libpcre.so.0
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making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
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Version 2.1, February 1999

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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

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

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

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

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

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

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

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

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".
A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

   You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
   a) The modified work must itself be a software library.
   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

------------------ SECTION 4: GNU General Public License, V3.0 ------------------

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Version 3, 29 June 2007

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To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those

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products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To " propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

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non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

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5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

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d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.
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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PackageManagement

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1.101 tomcat-catalina 9.0.30

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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package model

import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed // json blob.

type CheckResponse struct {
    Expiration time.Time `json:"expiration"
    Token string `json:"token"
    MaxEngines int `json:"maxEngines"
    ScanningEnabled bool `json:"scanningEnabled"
    Type string `json:"licenseType"
    Tier string `json:"tier"
}

// IssuedLicense represents an issued license

type IssuedLicense struct {
    KeyID string `json:"key_id"
    PrivateKey string `json:"private_key"
    Authorization string `json:"authorization"
}

// Valid returns true if the License is syntactically valid, false otherwise

func (l *IssuedLicense) Valid() (bool, string) {
    if l.KeyID == "" {
        return false, "empty key_id"
    }

    if l.PrivateKey == "" {
        return false, "empty private_key"
    }

    return true, "valid"
}
return false, "empty private_key"
}

if l.Authorization == "" {
    return false, "empty authorization"
}

return true, ""

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runc

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```go
package licensing

import (
    "context"
    "crypto/hmac"
    "crypto/sha256"
    "encoding/base64"
    "encoding/json"
    "fmt"
    "time"
    "github.com/docker/libtrust"
    "github.com/docker/licensing/lib/errors"
    "github.com/docker/licensing/lib/go-clientlib"
    "github.com/docker/licensing/model"
)

func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {
    url := c.baseURI
    url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)

    license := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err := nil
    if _ _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
        return nil, err
    }

    return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
    keyID := license.KeyID
    privateKey := license.PrivateKey

    authorization, err := c.getAuthorization(ctx, license)
```


if err != nil {
    return nil, err
}

// TODO: Mason - replace this parseJWS with a non libtrust lib
signature, err := libtrust.ParseJWS(authorization)
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license parse JWS failed")
}

keys, err := signature.Verify()
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license signature verification failed")
}

keyCnt := len(keys)
if keyCnt != 1 {
    err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
    return nil, errors.WithStack(err).With(errors.Fields{
        "key_id": keyID,
    })
}

key := keys[0]

if !c.recognizedSigningKey(key) {
    return nil, errors.New("unrecognized signing key")
}

payload, err := signature.Payload()
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "malformed signature payload")
}

checkRes := new(model.CheckResponse)
err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license payload unmarshal failed")
}
msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    })
}

return checkRes, nil
}

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if key.KeyID() == publicKey.KeyID() {
            return true
        }
    }
    return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": license.KeyID,
        }, "decoding license authorization failed")
    }
    return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly
// formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
    tokenBytes, err := base64.URLEncoding.DecodeString(token)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }
    generatedToken, err := generateToken(message, privateKey)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }
    return
}
generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
if err != nil {
    return errors.Wrap(err, errors.Fields{"token": token})
}

if !hmac.Equal(tokenBytes, generatedBytes) {
    return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
}

return nil

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
    if err != nil {
        return "", errors.Wrap(err, errors.Fields{"msg": message})
    }

    h := hmac.New(sha256.New, key)
    h.Write([]byte(message))
    return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

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package engine

import (  
  "time"
  "github.com/docker/cli/cli/command(formatter"
  "github.com/docker/cli/internal/licenseutils"
  "github.com/docker/licensing/model"
)
const (
    defaultSubscriptionsTableFormat = "table
{{.Num}}	{{.Owner}}	{{.ProductID}}	{{.Expires}}	{{.ComponentsString}}"
    defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"
    numHeader               = "NUM"
    ownerHeader             = "OWNER"
    licenseNameHeader       = "NAME"
    idHeader                = "ID"
    dockerIDHeader          = "DOCKER ID"
    productIDHeader         = "PRODUCT ID"
    productRatePlanHeader   = "PRODUCT RATE PLAN"
    productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
    startHeader             = "START"
    expiresHeader           = "EXPIRES"
    stateHeader             = "STATE"
    eusaHeader              = "EUSA"
    pricingComponentsHeader = "PRICING COMPONENTS"
)

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
    switch source {
    case formatter.TableFormatKey:
        if quiet {
            return defaultSubscriptionsQuietFormat
        }
        return defaultSubscriptionsTableFormat
    case formatter.RawFormatKey:
        if quiet {
            return `license: {{.ID}}`
        }
        return `license: {{.ID}}
name: {{.Name}}
owner: {{.Owner}}
components: {{.ComponentsString}}
`
    }
    return formatter.Format(source)
}

// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
    render := func(format func(subContext formatter.SubContext) error) error {
        for _, sub := range subs {
            licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
            if err := format(licenseCtx); err != nil {
                return err
            }
        }
        return nil
    }
    return nil
}
licenseCtx := licenseContext{}  
licenseCtx.Header = map[string]string{  
    "Num":   numHeader,  
    "Owner": ownerHeader,  
    "Name":  licenseNameHeader,  
    "ID":    idHeader,  
    "DockerID": dockerIDHeader,  
    "ProductID": productIdHeader,  
    "ProductRatePlan": productRatePlanHeader,  
    "ProductRatePlanID": productRatePlanIDHeader,  
    "Start":  startHeader,  
    "Expires": expiresHeader,  
    "State":  stateHeader,  
    "Eusa":   eusaHeader,  
    "ComponentsString": pricingComponentsHeader,  
}  
return ctx.Write(&licenseCtx, render)  
}  

type licenseContext struct {  
    formatter.HeaderContext  
    trunc bool  
    l licenseutils.LicenseDisplay  
}  

func (c *licenseContext) MarshalJSON() ([]byte, error) {  
    return formatter.MarshalJSON(c)  
}  

func (c *licenseContext) Num() int {  
    return c.l.Num  
}  

func (c *licenseContext) Owner() string {  
    return c.l.Owner  
}  

func (c *licenseContext) ComponentsString() string {  
    return c.l.ComponentsString  
}  

func (c *licenseContext) Summary() string {  
    return c.l.String()  
}  

func (c *licenseContext) Name() string {  
    return c.l.Name  
}
func (c *licenseContext) ID() string {
    return c.l.ID
}

func (c *licenseContext) DockerID() string {
    return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
    return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
    return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
    return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
    return c.l.Expires
}

func (c *licenseContext) State() string {
    return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
    return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
    // Dereference the pricing component pointers in the pricing components
    // so it can be rendered properly with the template formatter

    var ret []model.SubscriptionPricingComponent
    for _, spc := range c.l.PricingComponents {
        if spc == nil {
            continue
        }
        ret = append(ret, *spc)
    }
    return ret
}
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package engine
import (  "bytes"  "encoding/json"  "strings"  "testing"  "time"  
  "github.com/docker/cli/cli/command/formatter"  "github.com/docker/cli/internal/licenseutils"  "github.com/docker/licensing/model"  "gotest.tools/assert"  is "gotest.tools/assert/cmp"
)

func TestSubscriptionContextWrite(t *testing.T) {
cases := []struct {
  context formatter.Context
  expected string
}{{
  // Errors
  
  formatter.Context{Format: "{{InvalidFunction}}"},
  'Template parsing error: template: :1: function "InvalidFunction" not defined
}}
### Table Format

<table>
<thead>
<tr>
<th>NUM</th>
<th>OWNER</th>
<th>PRODUCT ID</th>
<th>EXPIRES</th>
<th>PRICING COMPONENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>owner1</td>
<td>productid1</td>
<td>2020-01-01 10:00:00 +0000 UTC</td>
<td>compstring</td>
</tr>
<tr>
<td>2</td>
<td>owner2</td>
<td>productid2</td>
<td>2020-01-01 10:00:00 +0000 UTC</td>
<td>compstring</td>
</tr>
</tbody>
</table>

### Raw Format

```
license: id1
name: name1
owner: owner1
components: compstring

license: id2
name: name2
owner: owner2
components: compstring
```
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num: 1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID: "id1",
                Name: "name1",
                ProductID: "productid1",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",
                        Value: 10,
                    },
                },
                ComponentsString: "compstring",
            },
        },
        {
            Num: 2,
            Owner: "owner2",
            Subscription: model.Subscription{
                ID: "id2",
                Name: "name2",
                ProductID: "productid2",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{


Name: "nodes",
Value: 20,
},
},
},
ComponentsString: "compstring",
},
} out := &bytes.Buffer{
}
testcase.context.Output = out
err := SubscriptionsWrite(testcase.context, subscriptions)
if err != nil {
assert.Error(t, err, testcase.expected)
} else {
assert.Check(t, is.Equal(testcase.expected, out.String()))
}
}

func TestSubscriptionContextWriteJSON(t *testing.T) {
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
subscriptions := []licenseutils.LicenseDisplay{
{
Num: 1,
Owner: "owner1",
Subscription: model.Subscription{
ID: "id1",
Name: "name1",
ProductID: "productid1",
Expires: &expiration,
PricingComponents: model.PricingComponents{
&model.SubscriptionPricingComponent{
Name: "nodes",
Value: 10,
},
},
},
ComponentsString: "compstring",
},
{
Num: 2,
Owner: "owner2",
Subscription: model.Subscription{
ID: "id2",
Name: "name2",
ProductID: "productid2",
Expires: &expiration,
PricingComponents: model.PricingComponents{


model.SubscriptionPricingComponent{
    Name: "nodes",
    Value: 20,
},
,
ComponentsString: "compstring",
}

expectedJSONs := []map[string]interface{}
{
    "Owner": "owner1",
    "ComponentsString": "compstring",
    "Expires": "2020-01-01T10:00:00Z",
    "DockerID": "",
    "Eusa": nil,
    "ID": "id1",
    "Name": "name1",
    "Num": float64(1),
    "PricingComponents": []interface{}{
        map[string]interface{}{
            "name": "nodes",
            "value": float64(10),
        },
    },
    "ProductID": "productid1",
    "ProductRatePlan": "",
    "ProductRatePlanID": "",
    "State": "",
    "Summary": "License Name: name1\nQuantity: 10 nodes\nExpiration date: 2020-01-01",
},
{
    "Owner": "owner2",
    "ComponentsString": "compstring",
    "Expires": "2020-01-01T10:00:00Z",
    "DockerID": "",
    "Eusa": nil,
    "ID": "id2",
    "Name": "name2",
    "Num": float64(2),
    "PricingComponents": []interface{}{
        map[string]interface{}{
            "name": "nodes",
            "value": float64(20),
        },
    },
}
"ProductID":
"productid2",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State":
"",
"Summary":
"License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01",
},
}
out := &bytes.Buffer{}
err := SubscriptionsWrite(formatter.Context{Format: "{{json .}}", Output: out}, subscriptions)
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
var m map[string]interface{}
if err := json.Unmarshal([]byte(line), &m); err != nil {
t.Fatal(err)
}
assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}
}
func TestSubscriptionContextWriteJSONField(t *testing.T) {
subscriptions := []licenseutils.LicenseDisplay{
{Num: 1, Owner: "owner1"},
{Num: 2, Owner: "owner2"},
}
out := &bytes.Buffer{}
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
var s string
if err := json.Unmarshal([]byte(line), &s); err != nil {
t.Fatal(err)
}
assert.Check(t, is.Equal(subscriptions[i].Owner, s))
}
}
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1.104 fipscheck 1.4.1-6.el7

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File: PSReadLine
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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.110 pam 1.1.8 22.el7

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1.111 oddjob-mkhomedir 0.31.5-4.el7

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6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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. The file `src/libs/snprintf/snprintf.c', written by Mark Martinec <mark.martinec@ijs.si>.

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. The `grn' preprocessor, written by Barry Roitblat <brarry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

The original package can be found at http://ftp.cs.wisc.edu/pub/misc/grn.tar.Z.

src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

Macro Packages
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The -mdoc macro set, using the BSD license.
Hyphenation Patterns

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. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of the TeX system written by Donald E. Knuth; the master file can be found at

ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>', e.g. `hyphen.de' or `hyphen.uk'.

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. The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at

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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyphn.tex' and `dehypht.tex' (for TeX), which
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@c ispell-local-pdict: "ispell-dict"
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1.122 libjpeg 6b

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This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

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DOCUMENTATION ROADMAP
=========================

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO               Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc       How to configure and install the IJG software.
usage.doc         Usage instructions for cjpeg, djpeg, jpegtran,
                  rdjpgcom, and wrjpgcom.
*.1                Unix-style man pages for programs (same info as usage.doc).
wizard.doc        Advanced usage instructions for JPEG wizards only.
change.log        Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc       How to use the JPEG library in your own programs.
example.c         Sample code for calling the JPEG library.
structure.doc     Overview of the JPEG library's internal structure.
filelist.doc      Road map of IJG files.
coderules.doc     Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information
can also be found in the JPEG FAQ (Frequently Asked Questions) article. See
ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or
more of the REFERENCES, then looking at the documentation files (in roughly
the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and
decompression. JPEG (pronounced "jay-peg") is a standardized compression
method for full-color and gray-scale images. JPEG is intended for compressing
"real-world" scenes; line drawings, cartoons and other non-realistic images
are not its strong suit. JPEG is lossy, meaning that the output image is not
exactly identical to the input image. Hence you must not use JPEG if you
have to have identical output bits. However, on typical photographic images,
very good compression levels can be obtained with no visible change, and
remarkably high compression levels are possible if you can tolerate a
low-quality image. For more details, see the references, or just experiment
with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive
compression processes. Provision is made for supporting all variants of these
processes, although some uncommon parameter settings aren't implemented yet.
For legal reasons, we are not distributing code for the arithmetic-coding
variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting
the hierarchical or lossless processes defined in the standard.
We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason,
support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES
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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published
The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

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A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available...
ARCHIVE LOCATIONS

The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.

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RELATED SOFTWARE

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous
sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.
Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is;
you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford,
is available from ftp://havefun.stanford.edu/pub/jpeg/. This program
is designed for research and experimentation rather than production use;
it is slower, harder to use, and less portable than the IJG code, but it
is easier to read and modify. Also, the PVRG code supports lossless JPEG,
which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
================

Some JPEG programs produce files that are not compatible with our library.
The root of the problem is that the ISO JPEG committee failed to specify a
concrete file format. Some vendors "filled in the blanks" on their own,
creating proprietary formats that no one else could read. (For example, none
of the early commercial JPEG implementations for the Macintosh were able to
exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format
has been agreed to by a number of major commercial JPEG vendors, and it has
become the de facto standard. JFIF is a minimal or "low end" representation.
We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF
Technical Note #2) for "high end" applications that need to record a lot of
additional data about an image. TIFF/JPEG is fairly new and not yet widely
supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF.
SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should
be able to read the most common variant of SPIFF. SPIFF has some technical
advantages over JFIF, but its major claim to fame is simply that it is an
official standard rather than an informal one. At this point it is unclear
whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto
standard. IJG intends to support SPIFF once the standard is frozen, but we
have not decided whether it should become our default output format or not.
(In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist.
We have little or no sympathy for the existence of these formats. Indeed,
one of the original reasons for developing this free software was to help
force convergence on common, open format standards for JPEG files. Don't
use a proprietary file format!

TO DO
The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.123 cxf-rt-transports-http 3.3.5
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Open-vm-tools v10.2.5

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>>> freebsd-base64-4.8
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base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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/* Jackson JSON-processor.
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*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1077892088_1597171144.73/0/jackson-core-asl-1-9-13-sources-jar/org/codehaus/jackson/Base64Variant.java
* /opt/ws_local/PERMITS_SQL/1077892088_1597171144.73/0/jackson-core-asl-1-9-13-sources-jar/org/codehaus/jackson/JsonParser.java
* /opt/ws_local/PERMITS_SQL/1077892088_1597171144.73/0/jackson-core-asl-1-9-13-sources-jar/org/codehaus/jackson/util/ByteArrayBuilder.java
* /opt/ws_local/PERMITS_SQL/1077892088_1597171144.73/0/jackson-core-asl-1-9-13-sources-jar/org/codehaus/jackson/JsonGenerator.java
* /opt/ws_local/PERMITS_SQL/1077892088_1597171144.73/0/jackson-core-asl-1-9-13-sources-jar/org/codehaus/jackson/JsonFactory.java

1.131 librest 0.8.1-2.el7
1.131.1 Available under license:

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1.132 ant-launcher 1.6.5

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1.135 libpcap 1.7.3

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/*
dragtable v1.0
June 26, 2008
Dan Vanderkam, http://danvk.org/dragtable/
        http://code.google.com/p/dragtable/

Instructions:
- Download this file
- Add <script src="dragtable.js"></script> to your HTML.
- Add class="draggable" to any table you might like to reorder.
- Drag the headers around to reorder them.

This is code was based on:
- Stuart Langridge's SortTable (kryogenix.org/code/browser/sorttable)
- Mike Hall's draggable class (http://www.brainjar.com/dhtml/drag/)
- A discussion of permuting table columns on comp.lang.jspavascript

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forEach, version 1.0
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1019588489_1597792974.1/0/dragtable-js-1.zip/dragtable.js
1.137 dhcp 4.2.5-77.el7

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<!-- $Id$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
    xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
    xmlns:xi="http://www.w3.org/2001/XInclude"
    xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:if test="translate($text, '&#9;&#32;', '')">
        <xsl:call-template name="isc.copyright.format">
            <xsl:with-param name="text" select="normalize-space(substring-before($text, '&#10;'))"/>
        </xsl:call-template>
    </xsl:if>
    <xsl:value-of select="normalize-space(substring-after($text, '&#10;'))"/>
</xsl:template>

</xsl:stylesheet>
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c0f2bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

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* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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1.138 sysvinit-tools 2.88 14.dsf.el7

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
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/*
 * Enumeration of supported Base64 dialects.
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A decoder that splits the received `ByteBuf`s dynamically by the value of the length field in the message. It is particularly useful when you decode a binary message which has an integer header field that represents the length of the message body or the whole message.

<p>
[@link LengthFieldBasedFrameDecoder] has many configuration parameters so that it can decode any message with a length field, which is often seen in proprietary client-server protocols. Here are some example that will give you the basic idea on which option does what.
</p>

<h3>2 bytes length field at offset 0, do not strip header</h3>

The value of the length field in this example is `12 (0x0C)` which represents the length of "HELLO, WORLD". By default, the decoder assumes that the length field represents the number of the bytes that follows the length field. Therefore, it can be decoded with the simplistic parameter combination.

<pre>
  lengthFieldOffset   = 0
  lengthFieldLength   = 2
  lengthAdjustment    = 0
  initialBytesToStrip = 0 (= do not strip header)
</pre>

BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)

<table>
<thead>
<tr>
<th>Length</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>

<h3>2 bytes length field at offset 0, strip header</h3>

Because we can get the length of the content by calling `ByteBuf#readableBytes()`, you might want to strip the length field by specifying `<tt>initialBytesToStrip</tt>`. In this example, we specified `<tt>2</tt>`, that is same with the length of the length field, to strip the first two bytes.

<pre>
  lengthFieldOffset   = 0
</pre>
* lengthFieldLength = 2
* lengthAdjustment = 0
* \(<b initialBytesToStrip</b> = \(<b initialBytesToStrip</b> (= the length of the Length field)
*
* **BEFORE DECODE (14 bytes) ** AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
* </pre>
*
* \(<h3 initialBytesToStrip</b> 2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* \(<tt initialBytesToStrip</tt>. Because the length value in this example message
* is always greater than the body length by \(<tt initialBytesToStrip</tt>, we specify \(<tt initialBytesToStrip</tt> for compensation.
* \(<pre initialBytesToStrip
* lengthFieldOffset = 0
* lengthFieldLength = 2
* \(<b initialBytesToStrip</b> = \(<b initialBytesToStrip</b> (= the length of the Length field)
* initialBytesToStrip = 0
*
* **BEFORE DECODE (14 bytes) ** AFTER DECODE (14 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Length | Actual Content | Length | Actual Content |
* | 0x000E | "HELLO, WORLD" | 0x000E | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* \(<h3 initialBytesToStrip</b> 3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. \(<tt initialBytesToStrip</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* \(<pre initialBytesToStrip
* \(<b initialBytesToStrip</b> \(<b initialBytesToStrip</b> (= the length of Header 1)
* \(<b initialBytesToStrip</b> \(<b initialBytesToStrip</b>
* initialBytesToStrip = 0
*
* **BEFORE DECODE (17 bytes) ** AFTER DECODE (17 bytes)
* +--------------------------+      +--------------------------+
3 bytes length field at the beginning of 5 bytes header, do not strip header

This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra header into the frame length calculation.

```
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* <b>lengthAdjustment</b>: 2 (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
  +----------+----------+----------------+      +----------+----------+----------------+
  | Length  | Header 1 | Actual Content |----->| Length  | Header 1 | Actual Content |
  | 0x00000C | 0xCAFE   | "HELLO, WORLD" |      | 0xCAFE   | 0x00000C | "HELLO, WORLD" |
  +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
```

2 bytes length field at offset 1 in the middle of 4 bytes header,

This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the `<tt>lengthFieldOffset</tt>` and the extra header affects the `<tt>lengthAdjustment</tt>`. We also specified a non-zero `<tt>initialBytesToStrip</tt>` to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify `<tt>0</tt>` for `<tt>initialBytesToSkip</tt>`.

```
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>: 1 (= the length of HDR2)
* <b>initialBytesToStrip</b>: 3 (= the length of HDR1 + LEN)
*
* BEFORE DECODE (16 bytes)                      AFTER DECODE (13 bytes)
  +----------------+----------+----------------+      +----------------+----------+----------------+
  | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
  | 0xCAE | 0x000C | 0xFE   | "HELLO, WORLD" |      | 0xFE   | "HELLO, WORLD" |
  +----------------+----------+----------------+      +----------------+----------+----------------+
* </pre>
```

2 bytes length field at offset 1 in the middle of 4 bytes header,
Let's give another twist to the previous example. The only difference from the previous example is that the length field represents the length of the whole message instead of the message body, just like the third example. We have to count the length of HDR1 and Length into \( \textit{lengthAdjustment} \). Please note that we don't need to take the length of HDR2 into account because the length field already includes the whole header length.

\[
\begin{align*}
\text{lengthFieldOffset} &= 1 \\
\text{lengthFieldLength} &= 2 \\
\text{lengthAdjustment} &= -3 \\
\text{initialBytesToStrip} &= 3
\end{align*}
\]

**BEFORE DECODE (16 bytes) **

\[
\begin{align*}
&\text{HDR1} | \text{Length} | \text{HDR2} | \text{Actual Content} \\
&0xCA | 0x0010 | 0xFE | \text{"HELLO, WORLD"}
\end{align*}
\]

**AFTER DECODE (13 bytes) **

\[
\begin{align*}
&\text{HDR2} | \text{Actual Content} \\
&0xFE | \text{"HELLO, WORLD"}
\end{align*}
\]

@see LengthFieldPrepender

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"/opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java"

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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io.netty.handler.codec.compression/Crc32c.java
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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io.netty.handler.codec.protobuf/ProtobufVarint32FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io.netty.handler.codec.protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io.netty.handler.codec.protobuf/ProtocolDetectionResult.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io.netty.handler.codec.protobuf/ProtocolDetectionState.java
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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io.netty.handler.codec.protobuf/ProtocolFramePrepender.java
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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1.jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1.jar/io/netty/handler/codec/LimitingByteInput.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1.jar/io/netty/handler/codec/ReplayingDecoder.java
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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1.jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1.jar/io/netty/handler/codec/TooLongFrameException.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1.jar/io/netty/handler/codec/EncoderException.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1.jar/io/netty/handler/codec/ByteToMessageCodec.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1.jar/io/netty/handler/codec/serialization/ObjectEncoder.java
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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1.jar/io/netty/handler/codec/UnsupportedMessageTypeException.java
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jar/io/netty/handler/codec/base64/Base64Decoder.java
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jar/io/netty/handler/codec/compression/ZlibEncoder.java
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jar/io/netty/handler/codec/compression/Lz4XXHash32.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
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jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/compression/CompressionException.java
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jar/io/netty/handler/codec/CodecException.java
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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4.1.50-final-sources-1-jar/io/netty/handler/codec/EmptyHeaders.java

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File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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Additional -

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File: PSReadLine
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https://github.com/Izybkr/PSReadLine

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----------------------------------------------
File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PackageManagement
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  jar/org/springframework/amqp/rabbit/support/DefaultMessagePropertiesConverter.java
* /opt/ws_local/PERMITS_SQL/1008349194_1597810958.70/spring-rabbit-1-5-5-release-sources-1-
  jar/org/springframework/amqp/rabbit/listener/BlockingQueueConsumer.java
* /opt/ws_local/PERMITS_SQL/1008349194_1597810958.70/spring-rabbit-1-5-5-release-sources-1-
  jar/org/springframework/amqp/rabbit/connection/AbstractConnectionFactory.java
* /opt/ws_local/PERMITS_SQL/1008349194_1597810958.70/spring-rabbit-1-5-5-release-sources-1-
  jar/org/springframework/amqp/rabbit/connection/SimpleConnection.java
* /opt/ws_local/PERMITS_SQL/1008349194_1597810958.70/spring-rabbit-1-5-5-release-sources-1-
  jar/org/springframework/amqp/rabbit/connection/ConnectionFactoryUtils.java
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  jar/org/springframework/amqp/rabbit/core/RabbitTemplate.java
* /opt/ws_local/PERMITS_SQL/1008349194_1597810958.70/spring-rabbit-1-5-5-release-sources-1-
  jar/org/springframework/amqp/rabbit/config/NamespaceUtils.java
* /opt/ws_local/PERMITS_SQL/1008349194_1597810958.70/spring-rabbit-1-5-5-release-sources-1-
  jar/org/springframework/amqp/rabbit/connection/RabbitResourceHolder.java
* /opt/ws_local/PERMITS_SQL/1008349194_1597810958.70/spring-rabbit-1-5-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1008349194_1597810958.7/0/spring-rabbit-1-5-5-release-sources-1-jar/org/springframework/amqp/rabbit/core/support/BatchingStrategy.java
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1.163 batik-css 1.10

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1.164 xorg-server LiveOS Rhel 7.6 x86_64

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NekoHTML is a simple HTML scanner and tag balancer that enables
application programmers to parse HTML documents and access the
information using standard XML interfaces. The parser can scan HTML
files and "fix up" many common mistakes that human (and computer)
authors make in writing HTML documents. NekoHTML adds missing parent
elements; automatically closes elements with optional end tags; and can
handle mismatched inline element tags.

NekoHTML is written using the Xerces Native Interface (XNI) that is the
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- `analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java`
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2006-Jan-27

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David Turner, Robert Wilhelm, and Werner Lemberg

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#
# Don't put empty lines into this file!
#
.gitignore
#
builds/unix/pkg.m4
#
docs/FTL.TXT
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#
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src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
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src/pcf/module.mk
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>>> vmblock-1.0.0
>>> vmblock-none
>>> vmci-1.0.0
>>> vmci-9.6.1.0
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>>> cairo-1.10.2
>>> cairo-1.6.4
>>> glibmm-2.24.0
>>> gtk-engines-2.18.4
>>> gtkmm-2.20.1
>>> libbonobo-2.22.0
>>> libmspack-0.0.20040308alpha
>>> libsigc++-2.2.11
>>> pangomm-2.26.0

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>>> at-spi-1.22.1
>>> atk-1.22.0
>>> atk-1.30.0
>>> cairomm-1.10.0
>>> cairomm-1.6.0
>>> cairomm-1.8.2
>>> gail-1.22.3
>>> glib-2.16.4
>>> glib-2.24.2-1
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>>> glibmm-2.16.4
>>> gtk+-2.12.11
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>>> gtkmm-2.12.7
>>> librsvg-2.16.0
>>> pango-1.20.5
>>> pango-1.26.0
>>> pango-1.30.0
>>> procps-3.2.7-1
PART 8. VMWARE TOOLS FOR FREEBSD

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>>> freebsd-6.3
>>> libdnet-1.11
>>> libdnet-1.11-1
>>> libxdr-openbsd-4.3
>>> vmware blocking file system for freebsd-none

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>>> vmxnet-none
>>> vmxnet3-none

PART 9. OSP FOR DEPLOYPKG

>>> libmspack-0.0.20040308alpha

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redhat-rpm-config-8.0.45-32.el5.noarch.rpm
redhat-rpm-config-8.0.45-32.el5.noarch.cpio
\usr\lib\rpm\redhat\kmodtool

kmodtool - Helper script for building kernel module RPMs
Copyright (c) 2003-2008 Ville Skytt <ville.skytta@iki.fi>,
Thorsten Leemhuis <fedora@leemhuis.info>
Jon Masters <jcm@redhat.com>

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base64.c -- routines to encode/decode base64 data
SOpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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>>> boost-1.47.0

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2009-10-04, guwi17: modified and extended to meet uBLAS' needs

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libgdk_pixbuf-2.0.so.0
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libglibmm-2.4.so.1
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libgthread-2.0.so.0
libgtk-x11-2.0.so.0
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============== PART 9. OSP FOR DEPLOYPKG ====================

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c) Accompany the work with a written offer, valid for at
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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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Mersenne Twister

This C-program, with initialization improved 2002/1/26, Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
:func:`getnameinfo`, which are coded in separate source files from the WIDE

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at
   http://www.ietf.org/rfc/rfc1321.txt
The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
-----------------------------

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Modified by Jack Jansen, CWI, July 1995:
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----

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1.184 time 1.7 45.el7
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1.185 dom4j 1.6.1
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 */
1.186 websocket-servlet 9.4.10.v20180503

1.187 ntpdate 4.2.6p5 28.el7
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/* *. Mode: Text */

copyright = {
    date = "1970-2011";
    owner = "David L. Mills and/or others";
    eaddr = "http://bugs.ntp.org, bugs@ntp.org";
    type = note;
    text = <<- _EndOfDoc_
see html/copyright.html

_EndOfDoc_;}

longOpts;
config-header = config.h;
environrc;
no-misuse-usage;

version = `eval VERSION=`\`sed -e 's/.*\[//' -e 's/]/\]' < ../version.m4`
[ -z "${VERSION}" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid
echo $VERSION``;

version-value = "; # Don't use -v as a shortcut for --version "/

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jpg "Clone me," says Dolly sheepishly.

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6. [7] Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
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50. [54] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
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Additional -

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File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: HashTables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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

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src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp

The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
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tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
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tmac/doc-syms
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The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at

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The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyphn.tex' and `dehyphn.tex' (for TeX), which can be found at

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The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

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

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Appendix: How to Apply These Terms to Your New Libraries

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1998-05-11
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1.208 standard 1.1.2

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1.209 llvm 6.0.1-2.el7

1.209.1 Available under license :

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

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

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

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

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; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=avx512vl,avx512bw,avx512dq,prefer-256-bit | FileCheck %s

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

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

define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
; CHECK-LABEL: add512:
; ; %d = load <16 x i32>, <16 x i32>* %a
; ; %e = load <16 x i32>, <16 x i32>* %b
; ; %f = add <16 x i32> %d, %e
; ; store <16 x i32> %f, <16 x i32>* %c
; ret void
}
define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
    CHECK-LABEL: avg_v64i8_256:
    CHECK:       # %bb.0:
    CHECK-NEXT:  vmovdqa64 (%rdi), %zmm0
    CHECK-NEXT:  vpaddd (%rsi), %zmm0, %zmm0
    CHECK-NEXT:  vmovdqa64 %zmm0, (%rdx)
    CHECK-NEXT:  vzeroupper
    CHECK-NEXT:  retq
    %d = load <16 x i32>, <16 x i32>* %a
    %e = load <16 x i32>, <16 x i32>* %b
    %f = add <16 x i32> %d, %e
    store <16 x i32> %f, <16 x i32>* %c
    ret void
}

define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
    CHECK-LABEL: avg_v64i8_512:
    CHECK:       # %bb.0:
    CHECK-NEXT:  vmovdqa64 (%rsi), %zmm0
    CHECK-NEXT:  vpaddd (%rsi), %zmm0, %zmm0
    CHECK-NEXT:  vmovdqa64 %zmm0, (%rdx)
    CHECK-NEXT:  vzeroupper
    CHECK-NEXT:  retq
    %d = load <16 x i32>, <16 x i32>* %a
    %e = load <16 x i32>, <16 x i32>* %b
    %f = add <16 x i32> %d, %e
    store <16 x i32> %f, <16 x i32>* %c
    ret void
}
define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: pmaddwd_32_256:
    ; CHECK:     # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT: vpmaddwd (%rsi), %ymm0, %ymm0
    ; CHECK-NEXT: vpmaddwd 32(%rsi), %ymm1, %ymm1
    ; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
    ; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %A = load <32 x i16>, <32 x i16>* %APtr
    %B = load <32 x i16>, <32 x i16>* %BPtr
    %a = sext <32 x i16> %A to <32 x i32>
    %b = sext <32 x i16> %B to <32 x i32>
    %m = mul nsw <32 x i32> %a, %b
    %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
    %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
    %ret = add <16 x i32> %odd, %even
    store <16 x i32> %ret, <16 x i32>* %CPtr
    ret void
}
define void @paddwd_32_512() {
    ; CHECK-LABEL: pmaddwd_32_512:
    ; CHECK:    # %bb.0:
    ; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
    ; CHECK-NEXT: vpmaddwd (%rsi), %zmm0, %zmm0
    ; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %A = load <32 x i16>, <32 x i16>* %APtr
    %B = load <32 x i16>, <32 x i16>* %BPtr
    %a = sext <32 x i16> %A to <32 x i32>
    %b = sext <32 x i16> %B to <32 x i32>
    %m = mul nsw <32 x i32> %a, %b
    %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
    %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
    %ret = add <16 x i32> %odd, %even
    store <16 x i32> %ret, <16 x i32>* %CPtr
    ret void
}

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: psubus_64i8_max_256:
    ; CHECK:    # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT: vpsubusb (%rsi), %ymm0, %ymm0
    ; CHECK-NEXT: vpsubusb 32(%rsi), %ymm1, %ymm1
    ; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
    ; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %x = load <64 x i8>, <64 x i8>* %xptr
    %y = load <64 x i8>, <64 x i8>* %yptr
    %cmp = icmp ult <64 x i8> %x, %y
    %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
    %res = sub <64 x i8> %max, %y
    store <64 x i8> %res, <64 x i8>* %zptr
    ret void
}

define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: psubus_64i8_max_512:
    ; CHECK:    # %bb.0:
    ; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {  
; CHECK-LABEL: _Z9test_charPcS_i_256:  
; CHECK:   # %bb.0: # %entry  
; CHECK-NEXT: movl %edx, %eax  
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0  
; CHECK-NEXT: xorl %ecx, %ecx  
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1  
; CHECK-NEXT: vpxor %xmm2, %xmm2, %xmm2  
; CHECK-NEXT: .p2align 4, 0x90  
; CHECK-NEXT: .LBB8_1: # %vector.body  
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1  
; CHECK-NEXT: vpmovsxbw (%rdi,%rcx), %ymm3  
; CHECK-NEXT: vpmovsxbw 16(%rdi,%rcx), %ymm4  
; CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %ymm5  
; CHECK-NEXT: vpmaddwd %ymm3, %ymm5, %ymm3  
; CHECK-NEXT: vpadd %ymm1, %ymm3, %ymm1  
; CHECK-NEXT: vpmovsxbw 16(%rsi,%rcx), %ymm3  
; CHECK-NEXT: vpmaddwd %ymm4, %ymm3, %ymm2  
; CHECK-NEXT: vpaddd %ymm2, %ymm3, %ymm2  
; CHECK-NEXT: addq $32, %rcx  
; CHECK-NEXT: cmpq %rcx, %rax  
; CHECK-NEXT: jne .LBB8_1  
; CHECK-NEXT: vpaddd %ymm0, %ymm1, %ymm1  
; CHECK-NEXT: vpadd %ymm0, %ymm2, %ymm0  
; CHECK-NEXT: vpadd %ymm0, %ymm1, %ymm0  
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1  
; CHECK-NEXT: vpadd %ymm1, %ymm0, %ymm0  
; CHECK-NEXT: vpsubb (%rsi), %zmm0, %zmm0  
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)  
; CHECK-NEXT: vzeroupper  
; CHECK-NEXT: retq  

%x = load <64 x i8>, <64 x i8>* %xptr  
%y = load <64 x i8>, <64 x i8>* %yptr  
%cmp = icmp ult <64 x i8> %x, %y  
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x  
%res = sub <64 x i8> %max, %y  
store <64 x i8> %res, <64 x i8>* %zptr  
ret void  
}
; CHECK-NEXT: retq
entry:
  %3 = zext i32 %2 to i64
br label %vector.body

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

middle.block:
  %rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> undef, <32 x i32> %11, <32 x i32> unde

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%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {
; CHECK-LABEL: _Z9test_charPcS_i_512:
; CHECK: # %bb.0: # %entry
; CHECK-NEXT: movl %edx, %eax
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: xorl %ecx, %ecx
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT:  .LBB9_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vpmovsxbw (%rdi,%rcx), %zmm2
; CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %zmm3
; CHECK-NEXT: vpmaddwd %zmm2, %zmm3, %zmm2
; CHECK-NEXT: vpadd %zmm1, %zmm2, %zmm1
; CHECK-NEXT: addq $32, %rcx
; CHECK-NEXT: cmpq %rcx, %rax
; CHECK-NEXT: jne .LBB9_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vpadd %zmm0, %zmm1, %zmm0
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT: vpadd %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vpmovsxbw ([.%#], %xmm0[2,3,0,1]
; CHECK-NEXT: vpadd %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vpmovsxbw ([.%#], %xmm0[1,1,2,3]
; CHECK-NEXT: vpadd %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vmovd %xmm0, %eax
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
entry:
  %3 = zext i32 %2 to i64
br label %vector.body

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

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef
%bin.rdx18 = add <32 x i32> %bin.rdx17, %rdx.shuf19
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef
%bin.rdx20 = add <32 x i32> %bin.rdx19, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13

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

define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
; CHECK-LABEL: sad_16i8_256:
; CHECK: # %bb.0: # %entry
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT: .p2align 4, 0x90
return
}
vector.body:

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

middle.block:

%.lcssa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef> %bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> i32 2, i32 3, i32 undef, i32 undef, i32 undefined, i32 undef, i32 undef, i32 undefined, i32 undef, i32 undef, i32 undefined, i32 undefined, i32 undefined>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> i32 1, i32 undef, i32 undefined, i32 undef, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined, i32 undefined>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}
define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
 ; CHECK-LABEL: sad_16i8_512:
 ; CHECK:       # %bb.0: # %entry
 ; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
 ; CHECK-NEXT:    movq $-1024, %rax # imm = 0xFC00
 ; CHECK-NEXT:    .p2align 4, 0x90
 ; CHECK-NEXT:  .LBB11_1: # %vector.body
 ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
 ; CHECK-NEXT:    vmovdqu a+1024(%rax), %xmm1
 ; CHECK-NEXT:    vpsadbw b+1024(%rax), %xmm1, %xmm1
 ; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
 ; CHECK-NEXT:    addq $4, %rax
 ; CHECK-NEXT:    jne .LBB11_1
 ; CHECK-NEXT:  # %bb.2: # %middle.block
 ; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm1
 ; CHECK-NEXT:    vpadd %zmm1, %zmm0, %zmm0
 ; CHECK-NEXT:    vextracti128 $1, %ymm0, %zmm1
 ; CHECK-NEXT:    vpadd %zmm1, %zmm0, %zmm0
 ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
 ; CHECK-NEXT:   (vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1])
 ; CHECK-NEXT:    vpadd %zmm1, %zmm0, %zmm0
 ; CHECK-NEXT:    vpaddd %zmm0, %xmm0, %zmm1
 ; CHECK-NEXT:    vpaddd %zmm0, %xmm0, %zmm0
 ; CHECK-NEXT:    vpaddd %zmm0, %zmm0, %zmm0
 ; CHECK-NEXT:    vpaddd %zmm0, %zmm0, %zmm0
 ; CHECK-NEXT:    vpaddd %zmm0, %zmm0, %zmm0
 ; CHECK-NEXT:    vpaddd %zmm0, %zmm0, %zmm0
 ; CHECK-NEXT:    vpaddd %zmm0, %zmm0, %zmm0
 ; CHECK-NEXT:    vpaddd %zmm0, %zmm0, %zmm0
 ; CHECK-NEXT:    vmovd %xmm0, %eax
 ; CHECK-NEXT:    vzeroupper
 ; CHECK-NEXT:    retq
entry:
br label %vector.body
vector.body:
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi i16 x i32> [ zeroinitialize, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, %12, %13, %14, %15, %16, %17, %18, %19
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%.lcssa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %.lcssa, undef, <16 x i32> <i32 1, i32 2, i32 3, i32 4, i32 5, i32 6, i32 7, i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 1, i32 2, i32 3, i32 4, i32 5, i32 6, i32 7, i32 8, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 1, i32 2, i32 3, i32 undefined, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 2, i32 3, i32 undefined, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}
define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
 ; CHECK-LABEL: sbto16f32_256:
 ; CHECK: # %bb.0:
 ; CHECK-NEXT: vpmovw2m %ymm0, %k0
 ; CHECK-NEXT: kshiftrw $8, %k0, %k1
 ; CHECK-NEXT: vpmovm2d %k1, %ymm0
 ; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
 ; CHECK-NEXT: vpmovm2d %k0, %ymm1
 ; CHECK-NEXT: vcvtdq2ps %ymm1, %ymm1
 ; CHECK-NEXT: vmovaps %ymm1, (%rdi)
 ; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

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

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f64_256:
; CHECK:
# %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymmm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymmm0
; CHECK-NEXT: vextracti128 $1, %ymmm0, %ymmm1
; CHECK-NEXT: vcvtdq2pd %xmm1, %ymmm1
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymmm0
; CHECK-NEXT: vpmovm2d %k0, %ymmm2
; CHECK-NEXT: vcvtdq2pd %xmm2, %ymmm2
; CHECK-NEXT: vextracti128 $1, %ymmm2, %ymmm3
; CHECK-NEXT: vcvtdq2pd %xmm3, %ymmm3
; CHECK-NEXT: vpmovaps %ymmm2, 32(%rdi)
; CHECK-NEXT: vextracti128 $1, %ymmm3, %ymmm4
; CHECK-NEXT: vcvtdq2pd %ymm4, %ymmm4
; CHECK-NEXT: vmovaps %ymmm1, 64(%rdi)
; CHECK-NEXT: vzeroaphael
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}
define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f64_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm1
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymmm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT: vmovaps %zmm1, (%rdi)
; CHECK-NEXT: vzeroupper
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f32_256:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymmm0
; CHECK-NEXT: vpsrld $31, %ymm0, %ymmm0
; CHECK-NEXT: vcvtdq2ps %ymm0, %ymmm0
; CHECK-NEXT: vpmovm2d %k0, %ymmm1
; CHECK-NEXT: vpsrld $31, %ymmm1, %ymmm1
; CHECK-NEXT: vcvtdq2ps %ymmm1, %ymmm1
; CHECK-NEXT: vmovaps %ymmm1, (%rdi)
; CHECK-NEXT: vmovaps %ymmm0, 32(%rdi)
; CHECK-NEXT: vzeroupper
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f32_512:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymmm0
; CHECK-NEXT: vpsrld $31, %ymmm0, %ymmm0
; CHECK-NEXT: vcvtdq2ps %ymmm0, %ymmm0
; CHECK-NEXT: vpmovm2d %k0, %ymmm1
; CHECK-NEXT: vpsrld $31, %ymmm1, %ymmm1
; CHECK-NEXT: vcvtdq2ps %ymmm1, %ymmm1
; CHECK-NEXT: vmovaps %ymmm1, (%rdi)
; CHECK-NEXT: vmovaps %ymmm0, 32(%rdi)
; CHECK-NEXT: vzeroupper
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}
define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: ubto16f64_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:    vpmovm2d %k1, %ymm0
    ; CHECK-NEXT:    vpsrld $31, %ymm0, %ymm0
    ; CHECK-NEXT:    vcvtqd2pd %xmm0, %ymm1
    ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm0
    ; CHECK-NEXT:    vcvtqd2pd %xmm0, %ymm0
    ; CHECK-NEXT:    vpmovm2d %k0, %ymm2
    ; CHECK-NEXT:    vpsrld $31, %ymm2, %ymm2
    ; CHECK-NEXT:    vcvtqd2pd %xmm2, %ymm3
    ; CHECK-NEXT:    vextracti128 $1, %ymm2, %xmm3
    ; CHECK-NEXT:    vmovaps %ymm2, 32(%rdi)
    ; CHECK-NEXT:    vmovaps %ymm3, (%rdi)
    ; CHECK-NEXT:    vmovaps %ymm0, 96(%rdi)
    ; CHECK-NEXT:    vmovaps %ymm1, 64(%rdi)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    vpmovm2d %k0, %zmm0
    ; CHECK-NEXT:    vpsrld $31, %zmm0, %zmm0
    ; CHECK-NEXT:    vcvtqd2pd %ymm0, %zmm1
    ; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %xmm0
    ; CHECK-NEXT:    vcvtqd2pd %ymm0, %zmm0
    ; CHECK-NEXT:    vmovaps %zmm0, 64(%rdi)
    ; CHECK-NEXT:    vmovaps %zmm1, (%rdi)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    vpmovm2d %k0, %zmm0
    ; CHECK-NEXT:    vpsrld $31, %zmm0, %zmm0
    ; CHECK-NEXT:    vcvtqd2pd %ymm0, %zmm1
    ; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %xmm0
    ; CHECK-NEXT:    vcvtqd2pd %ymm0, %zmm0
    ; CHECK-NEXT:    vmovaps %zmm0, 64(%rdi)
    ; CHECK-NEXT:    vmovaps %zmm1, (%rdi)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: ubto16f64_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    vpmovm2d %k0, %zmm0
    ; CHECK-NEXT:    vpsrld $31, %zmm0, %zmm0
    ; CHECK-NEXT:    vcvtqd2pd %ymm0, %zmm1
    ; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %xmm0
    ; CHECK-NEXT:    vcvtqd2pd %ymm0, %zmm0
    ; CHECK-NEXT:    vmovaps %zmm0, 64(%rdi)
    ; CHECK-NEXT:    vmovaps %zmm1, (%rdi)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}
%l = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %l, <16 x double>* %res
ret void
}

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
; CHECK-LABEL: test_16f32toub_256:
; CHECK:
; CHECK-NEXT: vcvttps2dq (%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k0
; CHECK-NEXT: vcvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k1
; CHECK-NEXT: kunpckbw %k0, %k1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 [%k1] [z]
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
; CHECK-LABEL: test_16f32toub_512:
; CHECK:
; CHECK-NEXT: vcvttps2dq (%rdi), %zmm1
; CHECK-NEXT: vpslld $31, %zmm1, %zmm1
; CHECK-NEXT: vpmovd2m %zmm1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 [%k1] [z]
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
; CHECK-LABEL: test_16f32tosb_256:
; CHECK:
; CHECK-NEXT: vcvttps2dq (%rdi), %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k0
; CHECK-NEXT: vcvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k1
; CHECK-NEXT: kunpckbw %k0, %k1, %k1

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptosi <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
    %a = load <64 x i8>, <64 x i8>* %ptr
    %mask = fptosi <64 x float> %a to <64 x i1>
    %select = select <64 x i1> %mask, <64 x i8> %passthru, <64 x i8> zeroinitializer
    ret <64 x i8> %select
}

; CHECK-NEXT: vcvtph2dq (%rdi), %zmm1
; CHECK-NEXT: vpmovd2m %zmm1, %k1
; CHECK-NEXT: vpmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT: retq

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptosi <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
    %a = load <64 x i8>, <64 x i8>* %ptr
    %mask = fptosi <64 x float> %a to <64 x i1>
    %select = select <64 x i1> %mask, <64 x i8> %passthru, <64 x i8> zeroinitializer
    ret <64 x i8> %select
}

; CHECK-NEXT: vpmovdqa (%rdi), %ymm0
; CHECK-NEXT: vpmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmovdqa (%rsi), %ymm0
; CHECK-NEXT: vpmovdqa 32(%rsi), %ymm2
; CHECK-NEXT: vpmovdqa 32(%rsi), %ymm3
; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm4 = ymm2[8],ymm0[8],ymm2[9],ymm0[9],ymm2[10],ymm0[10],ymm2[11],ymm0[11],ymm2[12],ymm0[12],ymm2[13]
; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm5 = ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm6 = ymm2[16],ymm0[16],ymm2[17],ymm0[17],ymm2[18],ymm0[18],ymm2[19],ymm0[19],ymm2[20],ymm0[20],ymm2[21],ymm0[21],ymm2[22],ymm0[22],ymm2[23],ymm0[23]
; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm7 = ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-NEXT: vpunpckhlw {{.*#+}} ymm0 = ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-NEXT: vpunpckhlw {{.*#+}} ymm1 = ymm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm2 = ymm2[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm3 = ymm3[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
  ; First, extend each i32 to i64
  ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
  ; CHECK-DAG: sshll2.2d(170x)
  ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
  ; CHECK-DAG: scvtf.2d v1, [[BLOCK1_LO]]
  ; CHECK-DAG: scvtf.2d v2, [[BLOCK2_LO]]
  ; CHECK-DAG: scvtf.2d v3, [[BLOCK3_LO]]
  ; Next, convert each to double.
  ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
  ; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

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

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

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

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

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

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

define fp128 @TestSelect(fp128 %a, fp128 %b) {
    %cmp = fcmp ogt fp128 %a, %b
    %sub = fsub fp128 %a, %b
    %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
    ret fp128 %res
}

; CHECK-LABEL: TestSelect:
; CHECK      movaps 16(%rsp), %xmm1
; CHECK-NEXT  callq __subtf3
; CHECK-NEXT  testl %ebx, %ebx
; CHECK-NEXT  jg .LBB0_2
; CHECK-NEXT  # %bb.1:
define fp128 @TestFabs(fp128 %a) {
    %res = call fp128 @llvm.fabs.f128(fp128 %a)
    ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
    %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
    ret fp128 %res
}

define fp128 @TestFneg(fp128 %a) {
    %mul = fmul fp128 %a, %a
    %res = fsub fp128 0xL00000000000000008000000000000000, %mul
    ret fp128 %res
}

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_________________________________________________________________
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define void @zext256() "min-legal-vector-width"="256" { 
 ; VEC256-LABEL: 'zext256'
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
 ;
 ; VEC512-LABEL: 'zext256'
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
 ;
 %A = zext <8 x i16> undef to <8 x i64>
 %B = zext <8 x i32> undef to <8 x i64>
 %C = zext <16 x i8> undef to <16 x i32>
 %D = zext <16 x i16> undef to <16 x i32>
 %E = zext <32 x i8> undef to <32 x i16>
 ret void
define void @zext512() "min-legal-vector-width"="512" {
    ; AVX-LABEL: 'zext512'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    ;
    ; SKX256-LABEL: 'zext512'
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    ;
    ; VEC512-LABEL: 'zext512'
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    ;
    %A = zext <8 x i16> undef to <8 x i64>
    %B = zext <8 x i32> undef to <8 x i64>
    %C = zext <16 x i8> undef to <16 x i32>
    %D = zext <16 x i16> undef to <16 x i32>
    %E = zext <32 x i8> undef to <32 x i16>
    ret void
}

define void @sext256() "min-legal-vector-width"="256" {
    ; VEC256-LABEL: 'sext256'
    %A = zext <8 x i16> undef to <8 x i64>
    %B = zext <8 x i32> undef to <8 x i64>
    %C = zext <16 x i8> undef to <16 x i32>
    %D = zext <16 x i16> undef to <16 x i32>
    %E = zext <32 x i8> undef to <32 x i16>
    ret void
}
; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; VEC512-LABEL: 'sext256'
; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

define void @sext512() "min-legal-vector-width"="512" {
    ; AVX-LABEL: 'sext512'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

    ; SKX256-LABEL: 'sext512'

}
; SKX256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'sext512'
; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; CHECK: foo_i8
;CHECK-DAG: %[C1:const[0-9]?] = bitcast i32 805874720 to i32
;CHECK-DAG: %[C2:const[0-9]?] = bitcast i32 805874688 to i32
;CHECK-DAG: %[C3:const[0-9]?] = bitcast i32 805873720 to i32

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

@goo = global i8* undef

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

define void @foo_i32() {
  entry:
    %0 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
    %1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
    %2 = load volatile i32, i32* inttoptr (i32 805874720 to i32*), align 4
    %3 = load volatile i32, i32* inttoptr (i32 805874750 to i32*), align 4
    %4 = load volatile i32, i32* inttoptr (i32 805874752 to i32*), align 4
    %5 = load volatile i32, i32* inttoptr (i32 805874774 to i32*), align 4
  ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttopr i32 %[[C2]] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %2 = inttopr i32 %[[M1]] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT: %4 = inttopr i32 %[[M2]] to i32*
; CHECK-NEXT: %5 = load volatile i32, i32* %4, align 4
; CHECK-NEXT: %6 = inttopr i32 %[[C1]] to i32*
; CHECK-NEXT: %7 = load volatile i32, i32* %6, align 4
; CHECK-NEXT: %8 = inttopr i32 %[[M3]] to i32*
; CHECK-NEXT: %9 = load volatile i32, i32* %8, align 4
; CHECK-NEXT: %10 = inttopr i32 %[[M4]] to i32*
; CHECK-NEXT: %11 = load volatile i32, i32* %10, align 4
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttopr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %2 = inttopr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %4 = inttopr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %6 = inttopr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %8 = inttopr i32 %[[C1]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %10 = inttopr i32 %[[C1]] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2
; Check that for i32 type, the maximum legal offset is 124.
define void @foo_i32() {
  entry:
  %0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
  %1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
  %2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
  %3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
  %4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
  %5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
  ret void
}

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Evgeny Safronov <division494@gmail.com>
define internal void @innerSmall() "min-legal-vector-width"="128" {
  ret void
}

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

define internal void @innerNoAttribute() {
  ret void
}

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

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

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

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

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

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

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

target triple = "hexagon"

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

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

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

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

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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Additional -

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File: PSReadLine

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https://github.com/lzybkr/PSReadLine

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File: HashTables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powersheels-built-in-h

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PowerShell 6.0

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1.215 system-componentmodel-composition

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Additional -

File: PSReadLine
https://github.com/lzybkr/PSReadLine
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PackageManagement
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--------------------------------------------------------
NuGet.Common
NuGet.Configuration
NuGet.DependencyResolver.Core
NuGet.Frameworks
NuGet.LibraryModel
NuGet.Packaging
NuGet.Packaging.Core
NuGet.Packaging.Core.Types
NuGet.ProjectModel
NuGet.Protocol.Core.Types
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1.216 perl-encode 2.51-7.el7

1.216.1 Available under license:

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

---
abstract: unknown
author:
  - unknown
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.130880'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Encode
no_index:
directory:
  - t
  - inc
requires: { }
version: 2.51

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009860379_1594194177.94/0/perl-Encode-2.51-7.el7.src.rpm-cosi-expand-archive-5nFhl518/Encode-2.51.tar.gz-cosi-expand-archive-P0TWm66s/Encode-2.51/META.yml
No license file was found, but licenses were detected in source scan.

Encode::$_Name_ version 0.1
=

NAME
Encode::$_Name_ - <describe encoding>

SYNOPSIS
use Encode::$_Name_;  
#<put more words here>

ABSTRACT
<fill this in>

INSTALLATION
To install this module type the following:
perl Makefile.PL
make
make test
make install

DEPENDENCIES
This module requires perl version 5.7.3 or later.

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Found in path(s):
*/opt/ws_local/PERMITS_SQL/1009860379_1594194177.94/0/perl-Encode-2.51-7.el7.src.rpm-cosi-expand-archive-5nFhl518/Encode-2.51.tar.gz-cosi-expand-archive-P0TWm66s/Encode-2.51/Encode/README.e2x
No license file was found, but licenses were detected in source scan.

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Found in path(s):
*/opt/ws_local/PERMITS_SQL/1009860379_1594194177.94/0/perl-Encode-2.51-7.el7.src.rpm-cosi-expand-archive-5nFhl518/perl-Encode.spec
No license file was found, but licenses were detected in source scan.

is a proprietary name.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009860379_1594194177.94/0/perl-Encode-2.51-7.el7.src.rpm-cosi-expand-archive-5nFhl5I8/Encode-2.51.tar.gz-cosi-expand-archive-P0TWm66s/Encode-2.51/lib/Encode/Supported.pod
No license file was found, but licenses were detected in source scan.

=head1 NAME

Encode - character encodings in Perl

=head1 SYNOPSIS

use Encode qw(decode encode);
$characters = decode('UTF-8', $octets, Encode::FB_CROAK);
$octets = encode('UTF-8', $characters, Encode::FB_CROAK);

=head2 Table of Contents

Encode consists of a collection of modules whose details are too extensive to fit in one document. This one itself explains the top-level APIs and general topics at a glance. For other topics and more details, see the documentation for these modules:

=over 2
=item L<Encode::Alias> - Alias definitions to encodings
=item L<Encode::Encoding> - Encode Implementation Base Class
=item L<Encode::Supported> - List of Supported Encodings
=item L<Encode::CN> - Simplified Chinese Encodings
=item L<Encode::JP> - Japanese Encodings
=item L<Encode::KR> - Korean Encodings
=item L<Encode::TW> - Traditional Chinese Encodings
=back

=head1 DESCRIPTION

The C<Encode> module provides the interface between Perl strings and the rest of the system. Perl strings are sequences of
The repertoire of characters that Perl can represent is a superset of those defined by the Unicode Consortium. On most platforms the ordinal values of a character as returned by C<ord(I<S>)> is the I<Unicode codepoint> for that character. The exceptions are platforms where the legacy encoding is some variant of EBCDIC rather than a superset of ASCII; see L<perlebcdic>.

During recent history, data is moved around a computer in 8-bit chunks, often called "bytes" but also known as "octets" in standards documents. Perl is widely used to manipulate data of many types: not only strings of characters representing human or computer languages, but also "binary" data, being the machine's representation of numbers, pixels in an image, or just about anything.

When Perl is processing "binary data", the programmer wants Perl to process "sequences of bytes". This is not a problem for Perl: because a byte has 256 possible values, it easily fits in Perl's much larger "logical character".

This document mostly explains the I<how>. L<perlunitut> and L<perlunifaq> explain the I<why>.

=head2 TERMINOLOGY

=head3 character

A character in the range 0 .. 2**32-1 (or more); what Perl's strings are made of.

=head3 byte

A character in the range 0..255; a special case of a Perl character.

=head3 octet

8 bits of data, with ordinal values 0..255; term for bytes passed to or from a non-Perl context, such as a disk file, standard I/O stream, database, command-line argument, environment variable, socket etc.
$octets = encode(ENCODING, STRING[, CHECK])

Encodes the scalar value $STRING from Perl's internal form into $ENCODING and returns a sequence of octets. $ENCODING can be either a canonical name or an alias. For encoding names and aliases, see L</"Defining Aliases">. For CHECK, see L</"Handling Malformed Data">.

For example, to convert a string from Perl's internal format into ISO-8859-1, also known as Latin1:

$octets = encode("iso-8859-1", $string);

B<CAVEAT>: When you run C<$octets = encode("utf8", $string)> , then $octets I<might not be equal to> $string. Though both contain the same data, the UTF8 flag for $octets is I<always> off. When you encode anything, the UTF8 flag on the result is always off, even when it contains a completely valid utf8 string. See L</"The UTF8 flag"> below.

If the $string is C<undef>, then C<undef> is returned.

=head3 decode

$string = decode(ENCODING, OCTETS[, CHECK])

This function returns the string that results from decoding the scalar value $OCTETS, assumed to be a sequence of octets in $ENCODING, into Perl's internal form. The returns the resulting string. As with encode(), $ENCODING can be either a canonical name or an alias. For encoding names and aliases, see L</"Defining Aliases">; for $CHECK, see L</"Handling Malformed Data">.

For example, to convert ISO-8859-1 data into a string in Perl's internal format:

$string = decode("iso-8859-1", $octets);

B<CAVEAT>: When you run C<$string = decode("utf8", $octets)> , then $string I<might not be equal to> $octets. Though both contain the same data, the UTF8 flag for $string is on unless $octets consists entirely of ASCII data on ASCII machines or EBCDIC on EBCDIC machines. See L</"The UTF8 flag"> below.

If the $string is C<undef>, then C<undef> is returned.

=head3 find_encoding

[$obj =] find_encoding(ENCODING)
Returns the I<encoding object> corresponding to I<ENCODING>. Returns C<undef> if no matching I<ENCODING> is find. The returned object is what does the actual encoding or decoding.

```
(utf8 = decode($name, $bytes))
```
is in fact

```
(utf8 = do {
$obj = find_encoding($name);
    croak qq(encoding "$name" not found) unless ref $obj;
    $obj->decode($bytes);
});
```

with more error checking.

You can therefore save time by reusing this object as follows;

```
my $enc = find_encoding("iso-8859-1");
while(<>) {
    my $utf8 = $enc->decode($_);
    ... # now do something with $utf8;
}
```

Besides L</decode> and L</encode>, other methods are available as well. For instance, C<name()> returns the canonical name of the encoding object.

```
find_encoding("latin1")->name; # iso-8859-1
```

See L<Encode::Encoding> for details.

=head3 from_to

```
[length ] from_to($octets, FROM_ENC, TO_ENC [, CHECK])
```

Converts I<in-place> data between two encodings. The data in $octets must be encoded as octets and I<not> as characters in Perl's internal format. For example, to convert ISO-8859-1 data into Microsoft's CP1250 encoding:

```
from_to($octets, "iso-8859-1", "cp1250");
```

and to convert it back:

```
from_to($octets, "cp1250", "iso-8859-1");
```
Because the conversion happens in place, the data to be converted cannot be a string constant: it must be a scalar variable.

C<from_to()> returns the length of the converted string in octets on success, and C<undef> on error.

B<CAVEAT>: The following operations may look the same, but are not:

from_to($data, "iso-8859-1", "utf8"); #1
$data = decode("iso-8859-1", $data); #2

Both #1 and #2 make $data consist of a completely valid UTF-8 string, but only #2 turns the UTF8 flag on. #1 is equivalent to:

$data = encode("utf8", decode("iso-8859-1", $data));

See L</"The UTF8 flag"> below.

Also note that:

from_to($octets, $from, $to, $check);

is equivalent to

$octets = encode($to, decode($from, $octets), $check);

Yes, it does I<not> respect the $check during decoding. It is deliberately done that way. If you need minute control, use C<decode> followed by C<encode> as follows:

$octets = encode($to, decode($from, $octets, $check_from), $check_to);

=head3 encode_utf8

$octets = encode_utf8($string);

Equivalent to C<$octets = encode("utf8", $string)>. The characters in $string are encoded in Perl's internal format, and the result is returned as a sequence of octets. Because all possible characters in Perl have a (loose, not strict) UTF-8 representation, this function cannot fail.

=head3 decode_utf8

$string = decode_utf8($octets [, CHECK]);

Equivalent to C<$string = decode("utf8", $octets [, CHECK])>. The sequence of octets represented by $octets is decoded from UTF-8 into a sequence of logical characters.
Because not all sequences of octets are valid UTF-8, it is quite possible for this function to fail. For CHECK, see L</"Handling Malformed Data">.

=head2 Listing available encodings

use Encode;
@list = Encode->encodings();

Returns a list of canonical names of available encodings that have already been loaded. To get a list of all available encodings including those that have not yet been loaded, say:

@all_encodings = Encode->encodings(":all");

Or you can give the name of a specific module:

@with_jp = Encode->encodings("Encode::JP");

When "C<::>" is not in the name, "C<Encode::>" is assumed.

@ebcdic = Encode->encodings("EBCDIC");

To find out in detail which encodings are supported by this package, see L<Encode::Supported>.

=head2 Defining Aliases

To add a new alias to a given encoding, use:

use Encode;
use Encode::Alias;
define_alias(NEWNAME => ENCODING);

After that, I<NEWNAME> can be used as an alias for I<ENCODING>. I<ENCODING> may be either the name of an encoding or an I<encoding object>.

Before you do that, first make sure the alias is nonexistent using C<resolve_alias()> , which returns the canonical name thereof. For example:

Encode::resolve_alias("latin1") eq "iso-8859-1" # true
Encode::resolve_alias("iso-8859-12") # false; nonexistent
Encode::resolve_alias($name) eq $name # true if $name is canonical

C<resolve_alias()> does not need C<use Encode::Alias>; it can be imported via C<use Encode qw(resolve_alias)>.
See L<Encode::Alias> for details.

=head2 Finding IANA Character Set Registry names

The canonical name of a given encoding does not necessarily agree with IANA Character Set Registry, commonly seen as C<< Content-Type: text/plain; charset=I<WHATEVER> >>. For most cases, the canonical name works, but sometimes it does not, most notably with "utf-8-strict".

As of C<Encode> version 2.21, a new method C<mime_name()> is therefore added.

use Encode;
my $enc = find_encoding("UTF-8");
warn $enc->name;  # utf-8-strict
warn $enc->mime_name; # UTF-8

See also:  L<Encode::Encoding>

=head1 Encoding via PerlIO

If your perl supports C<PerlIO> (which is the default), you can use a C<PerlIO> layer to decode and encode directly via a filehandle. The following two examples are fully identical in functionality:

### Version 1 via PerlIO
open(INPUT,  "< :encoding(shiftjis)", $infile)
 || die "Can't open < $infile for reading: $!";
open(OUTPUT, "> :encoding(euc-jp)",  $outfile)
 || die "Can't open > $output for writing: $!";
while (<INPUT>) {  # auto decodes $_
   print OUTPUT;  # auto encodes $_
}
close(INPUT)  || die "can't close $infile: $!";
close(OUTPUT) || die "can't close $outfile: $!";

### Version 2 via from_to()
open(INPUT,  "< :raw",
open(OUTPUT, "> :raw",  $outfile)
    while (<INPUT>) {  # switch encoding
       from_to($_, "shiftjis", "euc-jp", 1);  # switch encoding
       print OUTPUT;  # emit raw (but properly encoded) data
    }
close(INPUT)  || die "can't close $infile: $!";
close(OUTPUT) || die "can't close $outfile: $!";
In the first version above, you let the appropriate encoding layer handle the conversion. In the second, you explicitly translate from one encoding to the other.

Unfortunately, it may be that encodings are C<PerlIO>-savvy. You can check to see whether your encoding is supported by C<PerlIO> by invoking the C<perlio_ok> method on it:

```
Encode::perlio_ok("hz");             # false
find_encoding("euc-cn")-&gt;perlio_ok;  # true wherever PerlIO is available
```

```
use Encode qw(perlio_ok);            # imported upon request
perlio_ok("euc-jp")
```

Fortunately, all encodings that come with C<Encode> core are C<PerlIO>-savvy except for C<hz> and C<ISO-2022-kr>. For the gory details, see L<Encode::Encoding> and L<Encode::PerlIO>.

=head1 Handling Malformed Data

The optional I<CHECK> argument tells C<Encode> what to do when encountering malformed data. Without I<CHECK>, C<Encode::FB_DEFAULT> (== 0) is assumed.

As of version 2.12, C<Encode> supports coderef values for C<CHECK>; see below.

B<NOTE:> Not all encodings support this feature.
Some encodings ignore the I<CHECK> argument. For example, L<Encode::Unicode> ignores I<CHECK> and it always croaks on error.

=head2 List of I<CHECK> values

=head3 FB_DEFAULT

I<CHECK> = Encode::FB_DEFAULT (== 0)

If I<CHECK> is 0, encoding and decoding replace any malformed character with a I<substitution character>. When you encode, I<SUBCHAR> is used. When you decode, the Unicode REPLACEMENT CHARACTER, code point U+FFFD, is used. If the data is supposed to be UTF-8, an optional lexical warning of warning category C"utf8" is given.

=head3 FB_CROAK

I<CHECK> = Encode::FB_CROAK (== 1)
If $\text{CHECK}$ is 1, methods immediately die with an error message. Therefore, when $\text{CHECK}$ is 1, you should trap exceptions with $\text{eval}[]$, unless you really want to let it $\text{die}$.

=head3 FB_QUIET

$\text{CHECK} = \text{Encode::FB_QUIET}$

If $\text{CHECK}$ is set to $\text{Encode::FB_QUIET}$, encoding and decoding immediately return the portion of the data that has been processed so far when an error occurs. The data argument is overwritten with everything after that point; that is, the unprocessed portion of the data. This is handy when you have to call $\text{decode}$ repeatedly in the case where your source data may contain partial multi-byte character sequences, (that is, you are reading with a fixed-width buffer). Here's some sample code to do exactly that:

```perl
my($buffer, $string) = ("", "");
while (read($fh, $buffer, 256, length($buffer))) {
    $string .= decode($encoding, $buffer, Encode::FB_QUIET);
    # $buffer now contains the unprocessed partial character
}
```

=head3 FB_WARN

$\text{CHECK} = \text{Encode::FB_WARN}$

This is the same as $\text{FB_QUIET}$ above, except that instead of being silent on errors, it issues a warning. This is handy for when you are debugging.

=head3 FB_PERLQQ FB_HTMLCREF FB_XMLCREF

=back

For encodings that are implemented by the $\text{Encode::XS}$ module, $\text{CHECK} \leftrightarrow \text{Encode::FB_PERLQQ}$ puts $\text{encode}$ and $\text{decode}$ into $\text{perlqq}$ fallback mode. When you decode, $C\text{\x{HH}}$ is inserted for a malformed character, where $\text{HH}$ is the hex representation of the octet that could not be decoded to utf8. When you encode, $C\text{\x{HHHH}}$ will be inserted, where $\text{HHHH}$ is
the Unicode code point (in any number of hex digits) of the character that cannot be found in the character repertoire of the encoding.

The HTML/XML character reference modes are about the same. In place of C\x{I<HHHH>}, HTML uses C&#I<NNN>; where I<NNN> is a decimal number, and XML uses C&#xI<HHHH>; where I<HHHH> is the hexadecimal number.

In C<Encode> 2.10 or later, C<LEAVE_SRC> is also implied.

=head3 The bitmask

These modes are all actually set via a bitmask. Here is how the C<FB_I<XXX>> constants are laid out. You can import the C<FB_I<XXX>> constants via C<use Encode qw(:fallbacks)>, and you can import the generic bitmask constants via C<use Encode qw(:fallback_all)>.

FB_DEFAULT FB_CROAK FB_QUIET FB_WARN FB_PERLQQ

<table>
<thead>
<tr>
<th>Mode</th>
<th>Mask</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIE_ON_ERR</td>
<td>0x0001</td>
<td></td>
</tr>
<tr>
<td>WARN_ON_ERR</td>
<td>0x0002</td>
<td></td>
</tr>
<tr>
<td>RETURN_ON_ERR</td>
<td>0x0004</td>
<td></td>
</tr>
<tr>
<td>LEAVE_SRC</td>
<td>0x0008</td>
<td></td>
</tr>
<tr>
<td>PERLQQ</td>
<td>0x0100</td>
<td></td>
</tr>
<tr>
<td>HTMLCREF</td>
<td>0x0200</td>
<td></td>
</tr>
<tr>
<td>XMLCREF</td>
<td>0x0400</td>
<td></td>
</tr>
</tbody>
</table>

=head3 LEAVE_SRC

Encode::LEAVE_SRC

If the C<Encode::LEAVE_SRC> bit is not set but I<CHECK> is set, then the source string to encode() or decode() will be overwritten in place. If you're not interested in this, then bitwise-OR it with the bitmask.

=head2 coderef for CHECK

As of C<Encode> 2.12, C<CHECK> can also be a code reference which takes the ordinal value of the unmapped character as an argument and returns a string that represents the fallback character. For instance:

```
$ascii = encode("ascii", $utf8, sub { sprintf "<U+%04X>", shift });
```

Acts like C<FB_PERLQQ> but U+I<XXXX> is used instead of C\x{I<XXXX>}. 

=head1 Defining Encodings

To define a new encoding, use:

```
use Encode qw(define_encoding);
```
define_encoding($object, CANONICAL_NAME [, alias...]);

I<CANONICAL_NAME> will be associated with I<$object>. The object 
should provide the interface described in L<Encode::Encoding>. 
If more than two arguments are provided, additional 
arguments are considered aliases for I<$object>.

See L<Encode::Encoding> for details.

=head1 The UTF8 flag

Before the introduction of Unicode support in Perl, The C<eq> operator 
just compared the strings represented by two scalars. Beginning with 
Perl 5.8, C<eq> compares two strings with simultaneous consideration of 
I<the UTF8 flag>. To explain why we made it so, I quote from page 402 of 
I<Programming Perl, 3rd ed.>

=over 2

=item Goal #1:

Old byte-oriented programs should not spontaneously break on the old 
byte-oriented data they used to work on.

=item Goal #2:

Old byte-oriented programs should magically start working on the new 
character-oriented data when appropriate.

=item Goal #3:

Programs should run just as fast in the new character-oriented mode 
as in the old byte-oriented mode.

=item Goal #4:

Perl should remain one language, rather than forking into a 
byte-oriented Perl and a character-oriented Perl.

=back

When I<Programming Perl, 3rd ed.> was written, not even Perl 5.6.0 had been 
born yet, many features documented in the book remained unimplemented for a 
long time. Perl 5.8 corrected much of this, and the introduction of the 
UTF8 flag is one of them. You can think of there being two fundamentally 
different kinds of strings and string-operations in Perl: one a 
byte-oriented mode for when the internal UTF8 flag is off, and the other a 
character-oriented mode for when the internal UTF8 flag is on.
Here is how C<Encode> handles the UTF8 flag.

=over 2
=item *
When you I<encode>, the resulting UTF8 flag is always B<off>.

=item *
When you I<decode>, the resulting UTF8 flag is B<on>--I<unless> you can unambiguously represent data. Here is what we mean by "unambiguously". After C<$utf8 = decode("foo", $octet)>,

When $octet is... The UTF8 flag in $utf8 is
---------------------------------------------
In ASCII only (or EBCDIC only)             OFF
In ISO-8859-1                             ON
In any other Encoding                     ON
---------------------------------------------

As you see, there is one exception: in ASCII. That way you can assume Goal #1. And with C<Encode>, Goal #2 is assumed but you still have to be careful in the cases mentioned in the B<CAVEAT> paragraphs above.

This UTF8 flag is not visible in Perl scripts, exactly for the same reason you cannot (or rather, you I<don't have to>) see whether a scalar contains a string, an integer, or a floating-point number. But you can still peek and poke these if you will. See the next section.

=back

=head2 Messing with Perl's Internals

The following API uses parts of Perl's internals in the current implementation. As such, they are efficient but may change in a future release.

=head3 is_utf8

is_utf8(STRING [, CHECK])

[INTERNAL] Tests whether the UTF8 flag is turned on in the I<STRING>. If I<CHECK> is true, also checks whether I<STRING> contains well-formed UTF-8. Returns true if successful, false otherwise.

As of Perl 5.8.1, L<utf8> also has the C<utf8::is_utf8> function.
=head3 _utf8_on

_utf8_on(STRING)

[INTERNAL] Turns the I<STRING>’s internal UTF8 flag B<on>. The I<STRING> is I<not> checked for containing only well-formed UTF-8. Do not use this unless you I<know with absolute certainty> that the STRING holds only well-formed UTF-8. Returns the previous state of the UTF8 flag (so please don’t treat the return value as indicating success or failure), or C<undef> if I<STRING> is not a string.

B<NOTE>: For security reasons, this function does not work on tainted values.

=head3 _utf8_off

_utf8_off(STRING)

[INTERNAL] Turns the I<STRING>’s internal UTF8 flag B<off>. Do not use frivolously. Returns the previous state of the UTF8 flag, or C<undef> if I<STRING> is not a string. Do not treat the return value as indicative of success or failure, because that isn’t what it means: it is only the previous setting.

B<NOTE>: For security reasons, this function does not work on tainted values.

=head1 UTF-8 vs. utf8 vs. UTF8

....We now view strings not as sequences of bytes, but as sequences of numbers in the range 0 .. 2**32-1 (or in the case of 64-bit computers, 0 .. 2**64-1) -- Programming Perl, 3rd ed.

That has historically been Perl's notion of UTF-8, as that is how UTF-8 was first conceived by Ken Thompson when he invented it. However, thanks to later revisions to the applicable standards, official UTF-8 is now rather stricter than that. For example, its range is much narrower (0 .. 0x10_FFFF to cover only 21 bits instead of 32 or 64 bits) and some sequences are not allowed, like those used in surrogate pairs, the 31 non-character code points 0xFD0 .. 0xFDFF, the last two code points in I<any> plane (0xFDD0 .. 0xFFFF), all non-shortest encodings, etc.

The former default in which Perl would always use a loose interpretation of UTF-8 has now been overruled:

From: Larry Wall <larry@wall.org>
Date: December 04, 2004 11:51:58 JST
To: perl-unicode@perl.org
Subject: Re: Make Encode.pm support the real UTF-8
On Fri, Dec 03, 2004 at 10:12:12PM +0000, Tim Bunce wrote:
: I've no problem with 'utf8' being Perl's unrestricted utf8 encoding,
: but "UTF-8" is the name of the standard and should give the
: corresponding behaviour.

For what it's worth, that's how I've always kept them straight in my
head.

Also for what it's worth, Perl 6 will mostly default to strict but
make it easy to switch back to lax.

Larry

Got that? As of Perl 5.8.7, B<"UTF-8"> means UTF-8 in its current
sense, which is conservative and strict and security-conscious, whereas
B<"utf8"> means UTF-8 in its former sense, which was liberal and loose and
lax. C<Encode> version 2.10 or later thus groks this subtle but critically
important distinction between C<"UTF-8"> and C<"utf8">.

    encode("utf8", "\x{FFFF_FFFF}", 1); # okay
    encode("UTF-8", "\x{FFFF_FFFF}", 1); # croaks

In the C<Encode> module, C<"UTF-8"> is actually a canonical name for
C<"utf-8-strict">. That hyphen between the C<"UTF"> and the C<"8"> is
critical; without it, C<Encode> goes "liberal" and (perhaps overly-)permissive:

    find_encoding("UTF-8")->name # is 'utf-8-strict'
    find_encoding("utf8")->name # ditto. names are case insensitive
    find_encoding("utf_8")->name # ditto. "_" are treated as ".-
    find_encoding("UTF8")->name # is 'utf8'.

Perl's internal UTF8 flag is called "UTF8", without a hyphen. It indicates
whether a string is internally encoded as "utf8", also without a hyphen.

=head1 SEE ALSO

L<Encode::Encoding>,
L<Encode::Supported>,
L<Encode::PerlIO>,
L<encoding>,
L<perlebcdic>,
L<perlfncopen>,
L<perlunicode>, L<perluniintro>, L<perlunifaq>, L<perlunitut>
L<utf8>,
the Perl Unicode Mailing List L<http://lists.perl.org/list/perl-unicode.html>
This project was originated by the late Nick Ing-Simmons and later maintained by Dan Kogai. See AUTHORS for a full list of people involved. For any questions, send mail to dankogai@cpan.org so that we can all share.

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/**
 * SPHINCS-256 signer.
 * <p>
 * This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being the digests used
 * for message hashing and tree construction are now configurable (within limits...) and that the implementation produces
 * detached signatures.
 * </p>
 * <p>
 * The SPHINCS reference implementation is public domain, as per the statement in the second last paragraph of
 * section 1 in https://eprint.iacr.org/2014/795.pdf
 * </p>
 */

1.217 bcmail-jdk15on 1.64

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/**
 * SPHINCS-256 signer.
 * <p>
 * This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being the digests used
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 * </p>
 * <p>
 * The SPHINCS reference implementation is public domain, as per the statement in the second last paragraph of
 * section 1 in https://eprint.iacr.org/2014/795.pdf
 * </p>
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public DomainParameters(BigInteger p, BigInteger g, BigInteger q, BigInteger j,

Found in path(s):
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// now keep space is free to use

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1014130329_1597744871.69/0/bcprov-jdk15on-1-64-sources-jar/org/bouncycastle/pqc/crypto/gmss/GMSSPrivateKeyParameters.java
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/**
 * Poly1305 message authentication code, designed by D. J. Bernstein.
 * <p>
 * Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key
 * consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106
 * effective key bits) used in the authenticator.
 * <p>
 * The polynomial calculation in this implementation is adapted from the public domain <a href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled</a> C implementation
 * by Andrew M (@floodyberry).
 * @see Poly1305KeyGenerator
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1014130329_1597744871.69/0/bcprov-jdk15on-1-64-sources-jar/org/bouncycastle/crypto/macs/Poly1305.java
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/**
 * Magic value for proprietary OpenSSH private key.
 **/ 

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1014130329_1597744871.69/0/bcprov-jdk15on-1-64-sources-jar/org/bouncycastle/crypto/util/OpenSSHPublicKeyUtils.java

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File:  Hashtables from ConvertFrom-json
----------------------------------------------

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PackageManagement
----------------------------------------------

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

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1.219 jquery-dateformat-min 1.0.1

1.220 postfix 2.10.1-7.el7

1.220.1 Available under license:

Included for the use of the fix_strcasecmp.c module which works around a Solaris problem.

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Author:
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- Postfix/TLS support was originally developed by Lutz Jaenicke of
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1.221 curl 7.29.0 54.el7
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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File: Hashtables from ConvertFrom-json
----------------------------------------------

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PackageManagement
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1.224 bootstrap3-dialog 1.35.4

1.224.1 Available under license:

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bootstrap-dialog

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

[![Latest release](https://img.shields.io/github/release/nakupanda/bootstrap3-dialog.svg)](https://github.com/nakupanda/bootstrap3-dialog/releases/latest)

Make use of Bootstrap Modal more monkey-friendly.


Please note that this project is for Bootstrap 3.

Thanks for [akinoniku](https://github.com/akinoniku)'s suggestions on dialog appearance.

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

## Ask a question

It's recommended to provide online examples when asking questions or reporting bugs.
Fork this all-ready jsfiddle and start writing your example:
<a href="https://jsfiddle.net/o5k0eaws/1/">http://jsfiddle.net/o5k0eaws/1/</a>

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

## Use Guidances from contributors

<a href="https://gist.github.com/Genkilabs/bdce5f62c5b46a8e0904">How to use bootstrap-dialog as Rails 4 confirm</a> - @[Genkilabs](https://github.com/Genkilabs)

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

## Reference to CDN

```
https://cdnjs.cloudflare.com/ajax/libs/bootstrap3-dialog/1.34.7/css/bootstrap-dialog.min.css
https://cdnjs.cloudflare.com/ajax/libs/bootstrap3-dialog/1.34.7/js/bootstrap-dialog.min.js
```  

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

## Install using Bower

```
bower install bootstrap-dialog
```  

Or

```
bower install bootstrap3-dialog
```  

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

## Install using npm

```
npm install --save bootstrap3-dialog
```  

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

## Build instructions:

Prepare:

```
```  

```
npm install
```
Open Source Used In Identity Services Engine 3.0  4728

Build:

```
gulp dist
```

================
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1077559581_1597836005.04/0/bootstrap3-dialog-1-35-4-zip/bootstrap3-dialog-1.35.4/README.md
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/* ================================================
* Make use of Bootstrap's modal more monkey-friendly.
* 
* For Bootstrap 3.
* 
* javanoob@hotmail.com
* 
* https://github.com/nakupanda/bootstrap3-dialog
* 
* Licensed under The MIT License.
* http://www.opensource.org/licenses/mit-license.php */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1077559581_1597836005.04/0/bootstrap3-dialog-1-35-4-zip/bootstrap3-dialog-1.35.4/src/js/bootstrap-dialog.js
* /opt/ws_local/PERMITS_SQL/1077559581_1597836005.04/0/bootstrap3-dialog-1-35-4-zip/bootstrap3-dialog-1.35.4/dist/js/bootstrap-dialog.js

1.225 python-schedutils 0.4 6.el7
1.225.1 Available under license :

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) 19yy name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

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    <signature of Ty Coon>, 1 April 1989
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The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

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

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contribu-
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The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to):
Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.
The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

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

1.230 openjdk-jre 1.8.0u242

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Last revised by Reagle $Date: 2005/06/03 22:49:13 $

1.232 gconf 3.2.6 8.el7

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1.238 jersey-common 2.12

1.239 libcheck LiveOS Rhel 7.6 x86_64

1.239.1 Available under license:

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**1.240 jetty-quickstart 9.4.10.v20180503**

**1.241 perl-exporter 5.68 3.el7**

**1.241.1 Available under license:**

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Additional -

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File: PSReadLine

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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.250 man-db 2.6.3-11.el7

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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

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

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

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

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

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

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a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline
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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source
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The End

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b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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the Library into a program that is not a library.

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

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

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

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

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

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Appendix: How to Apply These Terms to Your New Libraries

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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c) accompany it with the information you received as to where the corresponding source code may be obtained. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form alone.)

Source code for a work means the preferred form of the work for making modifications to it. For an executable file, complete source code means all the source code for all modules it contains; but, as a special exception, it need not include source code for modules which are standard libraries that accompany the operating system on which the executable file runs, or for standard header files or definitions files that accompany that operating system.

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to humanity, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program’s name and a brief idea of what it does.>
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when it starts in an interactive mode:

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    <signature of Ty Coon>, 1 April 1989
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That's all there is to it!

1.270 guava 25.0-jre
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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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

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

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

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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the
"Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
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changes were used in the work (which must be distributed under
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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
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On all platforms, Nmap is normally linked with:
- libpcap: Network packet capture library. Distributed with Nmap in the libpcap subdirectory. 
  http://www.tcpdump.org/
- libdnet: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-striped subdirectory. A summary of Nmap-local modifications is in the file NMAP_MODIFICATIONS. 
  http://code.google.com/p/libdnet/
- PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library. Distributed with Nmap in the libpcre subdirectory. 
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- liblua: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive. 
  http://www.lua.org/
- OpenSSL: Cryptographic library. OpenSSL is used by service detection
and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the --without-openssl configuration directive.
http://www.openssl.org/

- LIBLINEAR. Used for IPv6 OS classification.
  http://www.csie.ntu.edu.tw/~cjlin/liblinear/

- libsvn. The Subversion library, used by the updater program


On Windows only, Nmap uses:
- WinPcap: libpcap for Windows. The libpcap license applies to WinPcap, and it also has its own license. A binary copy of the library is distributed with Nmap in the subdirectory mswin32/winpcap.
  http://www.winpcap.org/

Certain Nmap Scripting Engine scripts use the simplified BSD license in licenses/bsd-simplified.

Zenmap and Ndiff require:
- Python. The binary distributions of Nmap include a Python interpreter and various libraries, built using either py2exe or py2app.
  http://www.python.org/

The Windows and Mac OS X binary packages include bundled versions of:
- GLib, GTK+, ATK, Pango: These libraries are licensed under the GNU LGPL 2, a copy of which is in the file licenses/LGPL-2.
  http://www.gtk.org/

- Cairo: graphics library. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1. See the files licenses/LGPL-2.1 and licenses/MPL-1.1.
  http://www.cairographics.org/

- libgailutil: Accessibility support for GTK+.

- libpng, jpeg, LibTIFF: Image file format libraries used by GTK+.

- zlib and bzip2: compression libraries.

- Expat: XML parser library.
  http://expat.sourceforge.net/

- fontconfig: font configuration library.
  http://www.fontconfig.org/

- FreeType: font rendering library.
  http://www.freetype.org/

- libiconv. Under the GNU LGPL 2.
  http://www.gnu.org/software/libiconv/

- libintl: gettext translation facilities. Under the GNU LGPL 2 and 2.1.
  http://www.gnu.org/software/gettext/

- libxml2: XML parsing library.
http://xmlsoft.org/
- SQLite.
  http://www.sqlite.org/
- PyGTK, PyGObject: bindings for Python. Licensed under the GNU LGPL 2.1.
  http://www.pygtk.org/
- PyCairo: bindings for Python. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1.

The Mac OS binary packages also include:
- Various X.org libraries. These were built using MacPorts.
  http://www.x.org/ http://www.macports.org/

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Library will still fall under Section 6.)

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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modification of the work for the customer's own use and reverse
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directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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1.282 servlet-api 3.1.0

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Additional -

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File:  PSReadLine

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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.291 libutempter 1.1.6 4.el7

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Additional -

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File: PSReadLine

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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.293 jetty-servlet 9.4.10.v20180503

1.294 bcel 5.2

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LLVM System Interface Library

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

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

  CF246:
  %Sl163 = select i1 %Cmp56, i8 undef, %L34, i8 undef

  ; preds = %CF246, %BB
br i1 undef, label %CF246, label %CF248

CF248: ; preds = %CF248, %CF246
    store i8 %Sl163, i8* %0
    br label %CF248
}
; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

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

target triple = "hexagon"

%struct.0 = type [ i8*, i8, %union.anon.0 ]
%union.anon.0 = type [ i8* ]

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

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

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

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

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

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

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

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attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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<tr>
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; RUN: llc -s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s

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

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}

; CHECK-LABEL: TestSelect:
; CHECK movaps 16(%%rsp), %xmm1
; CHECK-NEXT callq __subtf3
; CHECK-NEXT testl %ebx, %ebx
; CHECK-NEXT jg .LBB0_2
; CHECK-NEXT movaps .LCPI0_0(%rip), %xmm0
; CHECK-NEXT .LBB0_2:
; CHECK-NEXT addq $32, %%rsp
; CHECK-NEXT popq %rbx
; CHECK-NEXT retq
"
define fp128 @TestFabs(fp128 %a) {
    %res = call fp128 @llvm.fabs.f128(fp128 %a)
    ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
    %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
    ret fp128 %res
}

define fp128 @TestFneg(fp128 %a) {
    %mul = fmul fp128 %a, %a
    %res = fsub fp128 0xL00000000000000008000000000000000, %mul
    ret fp128 %res
}

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

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

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {

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

}
; CHECK-DAG: sshll.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

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

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

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

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

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

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merhaba dnya

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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1.303 bcpkix-jdk15on 1.64

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Additional -

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File: PSReadLine

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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.311 python-sssdconfig 1.16.2-13.el7

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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package engine

import (
    "bytes"
    "encoding/json"
    "strings"
    "testing"
    "time"

    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
    "gotest.tools/assert"
    is "gotest.tools/assert/cmp"
)

func TestSubscriptionContextWrite(t *testing.T) {
    cases := []struct {
        context  formatter.Context
        expected string
    }
Open Source Used In Identity Services Engine 3.0

```
// Errors

formatter.Context{Format: "{{InvalidFunction}}"},
'Template parsing error: template: :1: function "InvalidFunction" not defined
',
},
formatter.Context{Format: "{{nil}}"},
'Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command
',
},
// Table format

formatter.Context{Format: NewSubscriptionsFormat("table", false)},
'NUM          OWNER       PRODUCT ID          EXPIRES                         PRICING COMPONENTS
1            owner1      productid1          2020-01-01 10:00:00 +0000 UTC   compstring
2            owner2      productid2          2020-01-01 10:00:00 +0000 UTC   compstring
',
},
formatter.Context{Format: NewSubscriptionsFormat("table", true)},
'1:License Name: name1Quantity: 10 nodesExpiration date: 2020-01-01
2:License Name: name2Quantity: 20 nodesExpiration date: 2020-01-01
',
},
formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
'OWNER
owner1
owner2
',
},
formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", true)},
'OWNER
owner1
owner2
',
},
// Raw Format

'license: id1
name: name1
owner: owner1
components: compstring
```
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num: 1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID: "id1",
                Name: "name1",
                ProductID: "productid1",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",
                        Value: 10,
                    },
                },
                ComponentsString: "compstring",
            },
        },
        {
            Num: 2,
            Owner: "owner2",
            Subscription: model.Subscription{
                ID: "id2",
            },
        },
    }
}

// Custom Format

func TestSubscriptionContextWriteJSON(t *testing.T) {
    expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num:    1,
            Owner:  "owner1",
            Subscription: model.Subscription{
                ID:      "id1",
                Name:    "name1",
                ProductID: "productid1",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name:  "nodes",
                        Value: 10,
                    },
                    ComponentsString: "compstring",
                },
            },
        },
        {
            Num:    2,
            Owner:  "owner2",
            Subscription: model.Subscription{
ID: "id2",
Name: "name2",
ProductID: "productid2",
Expires: &expiration,
PricingComponents: model.PricingComponents{
  &model.SubscriptionPricingComponent{
    Name: "nodes",
    Value: 20,
    },
  },
ComponentsString: "compstring",
}
}
expectedJSONs := []map[string]interface{}{
  {
    "Owner":            "owner1",
    "ComponentsString": "compstring",
    "Expires":          "2020-01-01T10:00:00Z",
    "DockerID":         "",
    "Eusa":             nil,
    "ID":               "id1",
    "Start":            nil,
    "Name":             "name1",
    "Num":              float64(1),
    "PricingComponents": []interface{}{
      map[string]interface{}{
        "name":  "nodes",
        "value": float64(10),
      },
    },
    "ProductID":         "productid1",
    "ProductRatePlan":   "",
    "ProductRatePlanID": "",
    "State":             "",
    "Summary":           "License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01",
  },
  {
    "Owner":            "owner2",
    "ComponentsString": "compstring",
    "Expires":          "2020-01-01T10:00:00Z",
    "DockerID":         "",
    "Eusa":             nil,
    "ID":               "id2",
    "Start":            nil,
    "Name":             "name2",
    "Num":              float64(2),
    "PricingComponents": []interface{}{
  }}
map[string]interface{}{
    "name": "nodes",
    "value": float64(20),
},

"ProductID": "productid2",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name2
Quantity: 20 nodes
Expiration date: 2020-01-01",
}
}

out := &bytes.Buffer{
err := SubscriptionsWrite(formatter.Context{Format: "{{json .}}", Output: out}, subscriptions)
if err != nil {
    t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
    var m map[string]interface{}
    if err := json.Unmarshal([]byte(line), &m); err != nil {
        t.Fatal(err)
    }
    assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}
}

func TestSubscriptionContextWriteJSONField(t *testing.T) {
    subscriptions := []licenseutils.LicenseDisplay{
        {Num: 1, Owner: "owner1"},
        {Num: 2, Owner: "owner2"},
    }
    out := &bytes.Buffer{
if err != nil {
    t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
    var s string
    if err := json.Unmarshal([]byte(line), &s); err != nil {
        t.Fatal(err)
    }
    assert.Check(t, is.Equal(subscriptions[i].Owner, s))
}
}

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package engine

import (
    "time"
    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
)

const (  
defaultSubscriptionsTableFormat = "table
   {{.Num}}	{{.Owner}}	{{.ProductID}}	{{.Expires}}	{{.ComponentsString}}"

defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"
)

numHeader   = "NUM"
ownerHeader  = "OWNER"
licenseNameHeader = "NAME"
idHeader     = "ID"
dockerIDHeader = "DOCKER ID"
productIDHeader = "PRODUCT ID"
productRatePlanHeader = "PRODUCT RATE PLAN"
productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
startHeader  = "START"
expiresHeader = "EXPIRES"
stateHeader  = "STATE"
eusaHeader = "EUSA"
pricingComponentsHeader = "PRICING COMPONENTS"

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
    switch source {
    case formatter.TableFormatKey:
        if quiet {
            return defaultSubscriptionsQuietFormat
        }
        return defaultSubscriptionsTableFormat
    case formatter.RawFormatKey:
        if quiet {
            return `license: {{.ID}}`
        }
        return `license: {{.ID}}
name: {{.Name}}
owner: {{.Owner}}
components: {{.ComponentsString}}
`
    }
    return formatter.Format(source)
}

// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
    render := func(format func(subContext formatter.SubContext) error) error {
        for _, sub := range subs {
            licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
            if err := format(licenseCtx); err != nil {
                return err
            }
        }
        return nil
    }
    licenseCtx := licenseContext{
    }
    licenseCtx.Header = map[string]string{
        "Num": numHeader,
        "Owner": ownerHeader,
        "Name": licenseNameHeader,
        "ID": idHeader,
        "DockerID": dockerIDHeader,
        "ProductID": productIDHeader,
        "ProductRatePlan": productRatePlanHeader,
        "ProductRatePlanID": productRatePlanIDHeader,
        "Start": startHeader,
        "Expires": expiresHeader,
        "State": stateHeader,
        "Eusa": eusaHeader,
        "ComponentsString": pricingComponentsHeader,
    }
return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
formatter.HeaderContext
trunc bool
l     licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
return formatter.MarshalJSON(c)
}

func (c *licenseContext) Num() int {
return c.l.Num
}

func (c *licenseContext) Owner() string {
return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {
return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
return c.l.String()
}

func (c *licenseContext) Name() string {
return c.l.Name
}

func (c *licenseContext) ID() string {
return c.l.ID
}

func (c *licenseContext) DockerID() string {
return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
return c.l.ProductRatePlan
}
func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
    return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
    return c.l.Expires
}

func (c *licenseContext) State() string {
    return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
    return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
    // Dereference the pricing component pointers in the pricing components
    // so it can be rendered properly with the template formatter

    var ret []model.SubscriptionPricingComponent
    for _, spc := range c.l.PricingComponents {
        if spc == nil {
            continue
        }
        ret = append(ret, *spc)
    }
    return ret
}

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package model

import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed
// json blob.

type CheckResponse struct {
    Expiration  time.Time `json:"expiration"
    Token       string    `json:"token"
    MaxEngines  int       `json:"maxEngines"
    ScanningEnabled bool    `json:"scanningEnabled"
    Type        string    `json:"licenseType"
    Tier        string    `json:"tier"
}

// IssuedLicense represents an issued license

type IssuedLicense struct {
    KeyID        string `json:"key_id"
    PrivateKey   string `json:"private_key"
    Authorization string `json:"authorization"
}
// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
    if l.KeyID == "" {
        return false, "empty key_id"
    }
    if l.PrivateKey == "" {
        return false, "empty private_key"
    }
    if l.Authorization == "" {
        return false, "empty authorization"
    }
    return true, ""
}

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package licensing

import (  "context"  "crypto/hmac"  "crypto/sha256"
func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {
    url := c.baseURI
    url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)

    license := new(model.IssuedLicense)
    if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
        return nil, err
    }

    return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
    keyID := license.KeyID
    privateKey := license.PrivateKey

    authorization, err := c.getAuthorization(ctx, license)
    if err != nil {
        return nil, err
    }

    // TODO: Mason - replace this parseJWS with a non libtrust lib
    signature, err := libtrust.ParseJWS(authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license parse JWS failed")
    }

    keys, err := signature.Verify()
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license signature verification failed")
    }

    // Check verifies that the license identified by the given key id is valid. Note that it does not
    // interrogate the contents of the license.
    func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
        keyID := license.KeyID
        privateKey := license.PrivateKey

        authorization, err := c.getAuthorization(ctx, license)
        if err != nil {
            return nil, err
        }

        // TODO: Mason - replace this parseJWS with a non libtrust lib
        signature, err := libtrust.ParseJWS(authorization)
        if err != nil {
            return nil, errors.Wrapf(err, errors.Fields{
                "key_id": keyID,
            }, "license parse JWS failed")
        }

        keys, err := signature.Verify()
        if err != nil {
            return nil, errors.Wrapf(err, errors.Fields{
                "key_id": keyID,
            }, "license signature verification failed")
        }

        return nil, nil
    }
keyCnt := len(keys)
if keyCnt != 1 {
    err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
    return nil, errors.WithStack(err).With(errors.Fields{
        "key_id": keyID,
    })
}

key := keys[0]
if !c.recognizedSigningKey(key) {
    return nil, errors.New("unrecognized signing key")
}

payload, err := signature.Payload()
if err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
        "message": "malformed signature payload"}
    )
}

ccheckRes := new(model.CheckResponse)
err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
        "message": "license payload unmarshal failed"}
    )
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    })
}

return checkRes, nil

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if key.KeyID() == publicKey.KeyID() {
            return true
        }
    }
    return false
}
return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": license.KeyID,
        }, "decoding license authorization failed")
    }
    return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly
// formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
    tokenBytes, err := base64.URLEncoding.DecodeString(token)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }
    generatedToken, err := generateToken(message, privateKey)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }
    generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }
    if !hmac.Equal(tokenBytes, generatedBytes) {
        return errorsForbidden(errors.Fields{"token": token}, "invalid token")
    }
    return nil
}

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
if err != nil {
    return "", errors.Wrap(err, errors.Fields{"msg": message})
}

h := hmac.New(sha256.New, key)
h.Write([]byte(message))
return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.317 basesystem 10.0 7.el7
1.317.1 Available under license:

Summary: The skeleton package which defines a simple Red Hat Enterprise Linux system
Name: basesystem
Version: 10.0
Release: 7% {?dist}
License: Public Domain
Group: System Environment/Base
Requires(pre): setup filesystem
BuildRoot: %(mktemp -ud %{_tmppath}/%{name}-%{version}-%{release}-XXXXXX)
BuildArch: noarch

%description

Basesystem defines the components of a basic Red Hat Enterprise Linux system (for example, the package installation order to use during bootstrapping). Basesystem should be in every installation of a system, and it should never be removed.

1.318 dracut-network 033 554.el7
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 * 
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 * 
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 * 
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 * 
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* 
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*       combined, allow nicstar_free_rx_skb to be called to
*       recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
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* 
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* 
* M. Welsh, 6 July 1996
* 
*/

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The DSP/Bridge project wish to thank all of its contributors, current bridge driver is the result of the work of all of them. If any name is accidentally omitted, let us know by sending a mail to omar.ramirez@ti.com or x095840@ti.com.

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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
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</sect1>

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</para>
</sect1>
</appendix>
#ifndef __LICENSE_H
#define __LICENSE_H

static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
    || strcmp(license, "GPL v2") == 0
    || strcmp(license, "GPL and additional rights") == 0
    || strcmp(license, "Dual BSD/GPL") == 0
    || strcmp(license, "Dual MIT/GPL") == 0
    || strcmp(license, "Dual MPL/GPL") == 0);
}
#endif

1.323 javascriptcore LiveOS Rhel 7.6 x86_64
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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

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

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

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

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

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.S$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.S$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \n| sed "\"s/\($*\)\.o\[ :\]*/\1.o $@ : /g\" > $@;\n[ -s $@ ] || rm -f $@'
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \n| sed "\"s/\($*\)\.o\[ :\]*/\1.o $@ : /g\" > $@;\n[ -s $@ ] || rm -f $@'

## Versioned libraries rules
%.S$(SO).$(SO_TARGET_VERSION_MAJOR): %.S$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.S$(SO): %.S$(SO).$(SO_TARGET_VERSION_MAJOR)
\$(RM) \$@ &\& ln -s \{\*F\}.\$(SO).\$(SO_TARGET_VERSION) \$@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbiclic

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

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
/*
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[This is the first released version of the library GPL. It is
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Ty Coon, President of Vice

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#

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Included here to compliment the Pthreads-win32 license header in wtf/ThreadingWin.cpp file. WebKit is using derived sources of ThreadCondition code from Pthreads-win32.

-------------------------------------------------------------------
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reimplemented pthread_once with the same form as described by A. Terekhov (later version 2);
implementation of MCS (Mellor-Crummey/Scott) locks.
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1.332 libcap 2.22 9.el7

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1.333 vixie-cron cronie-1.4.11-19.el7

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1.334 httpcomponents-core 4.1

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1.335 python-pyudev 0.15 9.el7

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1.336 java-jwt 3.4.0

1.337 openssh 7.6
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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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 */

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#ifdef HAVE_POLL && !defined(HAVE_POLL_H)
#define COMPAT_POLL_H
#define COMPAT_POLL_H

typedef struct pollfd {
  int fd;
  short events;
  short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0010
#define POLLHUP 0x0020
#define POLLNVAL 0x0020

#if 0

#endif
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRD NORM 0x0040
#define POL LNORM POLLRD NORM
#define POLL W RNORM POLLOUT
#define POLL RDBAND 0x0080
#define POLL WRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
/*
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 *
 */

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H
#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED
#endif
#endif
/* Clean out any potential issues */
#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H
#endif
/* Clean out any potential issues */
#endif
/* Clean out any potential issues */
#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED
#endif
/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w)(*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w)(((_W_INT(w)) & 0377))
#define WIFSTOPPED(w)((_W_INT(w)) & 0100)
#define WIFSIGNALED(w)!WIFEXITED(w) & !WIFSTOPPED(w))
#define WEXITSTATUS(w) (WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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  */

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

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1.339 perl-socket 2.010-4.el7
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Source code for a work means the preferred form of the work for making modifications to it. For an executable file, complete source code means all the source code for all modules it contains; but, as a special exception, it need not include source code for modules which are standard libraries that accompany the operating system on which the executable file runs, or for standard header files or definitions files that accompany that operating system.

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That's all there is to it!
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-----

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icon-general.png (originally preferences-desktop.png)
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icon-security.png (originally dialog-warning.png)
icon-stylesheet.png (originally applications-graphics.png)
media-playback-pause.png
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File | Original filename
--- | ------------------
zoom-in.png | viewmag+.png
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document-print.png
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go-previous.png
icon-general.png (originally preferences-desktop.png)
icon-language.png (originally preferences-desktop-locale.png)
icon-network.png (originally applications-internet.png)
icon-security.png (originally dialog-warning.png)
icon-stylesheet.png (originally applications-graphics.png)
media-playback-pause.png
media-playback-start.png
process-stop.png
redo.png (modified version of edit-redo.png)
system-search.png
text-html.png
undo.png (modified version of edit-undo.png)
utilities-system-monitor.png
view-refresh.png
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File	Original filename
----------------------------------------------
zoom-in.png	viewmag+.png
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Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

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

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

From the original distribution:

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>
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# This is a Makefile stub which handles the creation of BSD shared libraries.
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$ (BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

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

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1.353 libpcap 1.5.3-11.el7

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1.354 microcode-ctl 2.1 47.el7

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This kbase https://access.redhat.com/articles/3436091 includes a table that maps Intel and AMD CPU processor code family names to updated Intel and AMD microcode package versions.

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1.355 pinentry 0.8.1-17.el7

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@end example

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@var{signature of Ty Coon}, 1 April 1990
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1.358 libsemanage-python 2.5 14.el7

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Mesa 3-D graphics library

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include/GL/glxext.h
include/GL/wglxext.h :

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

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source code from the same place satisfies the requirement to
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Section 6 states terms for distribution of such executables.

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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
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Otherwise, if the work is a derivative of the Library, you may
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END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

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1.369 libgcc 4.8.5 36.el7
#!/usr/bin/python
#
# Copyright (C) 2013 Free Software Foundation, Inc.
#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.

# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '
')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set([
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltOptions.m4',
            'lt4Obsolete.m4',
            'lt~obsolete.m4',
        ])

        self.skip_dirs |= set([
            # Skip directories.
            '.svn',
        ])
'missing',
'mkdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',
)

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')

    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True

    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True

        if os.path.exists (base + '.in'):
return True

return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years.  Include '.' for typos.
        ranges = '[0-9-]([-0-9,.\s]s+and\s+)*[0-9-]'

        # Non-whitespace characters in a copyright holder's name.
        name = '\[\w,.\-\]'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile (r'\[(Cc)opyright' +
            r'(\[Cc]\)\)' +
            r'\[(Cc)opyright\s+\[(Cc)\]\)' +
            r'\[(Cc)opyright\s+%s' +
            r'\[(Cc)opyright\s+&copy;' +
            r'\[(Cc)opyright\s+\@\copyright{}' +
            r'\@[set\s+\copyright\[\w\.\-\]+)'

        # 2: the years.  Include the whitespace in the year, so that
        # we can remove any excess.
        '\(\s*(?:' + ranges + ',?\s*)' +
        '\@value\{(\^[\s\{}\])\}\s*\)'
# 3: 'by ', if used

'(by\s+)?'

# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).

'( + name + (?:\s? + name + )*)?'

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
    re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')

self.holders = {'@copying': '@copying'}
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '.
self.separator = ' ' 

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

    def parse_year (self, string):
        year = int (string)
if len (string) == 2:
    if year > 70:
        return year + 1900
elif len (string) == 4:
    return year
raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value '):
        return years
    (min_year, max_year) = self.year_range (years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
            and (holder not in self.holder_prefixes
            and line))
def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith ('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != '':
            self.errors.report (pathname,
                'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete (match):
            try:
                next_line = file.next()
            except StopIteration:
                break
            # If the next line doesn’t look like a proper continuation,
            # assume that what we’ve got is complete.
            continuation = self.strip_continuation (next_line)
            if not self.continuation_re.match (continuation):
                break
            # Merge the lines for matching purposes.
            orig_line += next_line
            line = line.rstrip() + ' ' + continuation
            next_line = None

        # Rematch with the longer line, at the original position.
        match = self.copyright_re.match (line, match.start())
        assert match

        holder = match.group (4)
        # Use the filter to test cases where markup is getting in the way.
        if filter.by_package_author (dir, filename):
            assert holder not in self.holders
        elif not holder:
            self.errors.report (pathname, 'missing copyright holder')
            return (False, orig_line, next_line)
        else:
            self.holders.add (holder)
elif holder not in self.holders:
    self.errors.report (pathname,
        'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
        + canon_form
        + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
        + ' ' + canon_form + self.separator
        + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)'
    elif intro.endswith ('(c)'):
        intro = intro[:-3] + '(C)'
    line = line[:match.start (1)] + intro + line[match.end (1):]

    # Strip trailing whitespace
    line = line.rstrip() + '\n'

    return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
# Looks like something we tried to create before.
try:
    os.remove(pathname)
except OSErr
pass
return

lines = []
changed = False
line_filter = filter.get_line_filter(dir, filename)
with open(pathname, 'r') as file:
    prev = None
    for line in file:
        while line:
            next_line = None
            # Leave filtered-out lines alone.
            if not (line_filter and line_filter.match(line)):
                match = self.copyright_re.search(line)
                if match:
                    res = self.update_copyright(dir, filename, filter, file, line, match)
                    (this_changed, line, next_line) = res
                    changed = changed or this_changed
            # Check for copyright lines that might have slipped by.
            elif self.other_copyright_re.search(line):
                self.errors.report(pathname, 'unrecognised copyright: %s
% line.strip())
                lines.append(line)
                line = next_line

# If something changed, write the new file out.
if changed and self.errors.ok():
    tmp_pathname = pathname + '.tmp'
    with open(tmp_pathname, 'w') as file:
        for line in lines:
            file.write(line)
    if self.use_quilt:
        subprocess.call(['quilt', 'add', pathname])
    os.rename(tmp_pathname, pathname)

def process_tree(self, tree, filter):
    for (dir, subdirs, filenames) in os.walk(tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange(len(subdirs) - 1, -1, -1):
            if filter.skip_dir(dir, subdirs[i]):
                del subdirs[i]
# Handle the files in this directory.
for filename in filenames:
    if filter.skip_file (dir, filename):
        sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
    else:
        self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
                         self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
                         self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...

Options:
' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))
        sys.stdout.write ('
Directories:
')
        format = '%-25s
'
        i = 0
        for (dir, filter) in self.dirs:
            i += 1
            if i % 3 == 0 or i == len (self.dirs):
                sys.stdout.write (dir + 'n')
            else:
                sys.stdout.write (format % dir)
sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                        self.copyright.process_tree (dir, filter)
                if count == 0:
                    self.errors.report (None, 'unrecognised directory: '
                    + chosen_dir)
            sys.exit (0 if self.errors.ok() else 1)

#----------------------------------------------------------------------------
class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
# Skip files imported from gettext.
if file.readline().find('gettext-') >= 0:
    return True

return GenericFilter.skip_file(self, dir, filename)

class GCCFilter(GenericFilter):
def __init__(self):
    GenericFilter.__init__(self)

    self.skip_files |= set([
        # Not part of GCC
        'math-68881.h',
    ])

    self.skip_dirs |= set([
        # Better not create a merge nightmare for the GNAT folks.
        'ada',

        # Handled separately.
        'testsuite',
    ])

    self.skip_extensions |= set([
        # Maintained by the translation project.
        '.po',

        # Automatically-generated.
        '.pot',
    ])

    self.fossilised_files |= set([
        # Old news won't be updated.
        'ONEWS',
    ])

class TestsuiteFilter(GenericFilter):
def __init__(self):
    GenericFilter.__init__(self)

    self.skip_extensions |= set([
        # Don't change the tests, which could be woend by anyone.
        '.c',
        '.C',
        '.cc',
        '.h',
        '.hs',
        '.f',
        '.f90',
    ])


def skip_file(self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename(dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set(['
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set(['
            # Imported from GLIBC.
            soft-fp',
        ])

class LibJavaFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set(['
            # Handled separately.
            testsuite',

            # Not really part of the library
            contrib',

            # Imported from upstream
            classpath',
            'libltdl',
        ])
def get_line_filter (self, dir, filename):
if filename == 'NameDecoder.h':
    return re.compile ('.*NAME_COPYRIGHT')
if filename == 'ICC_Profile.h':
    return re.compile ('.*icSigCopyrightTag')
return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
def __init__ (self):
    GenericFilter.__init__ (self)

    self.skip_dirs |= set (
        # Handled separately.
        'testsuite',
    )

class LibStdCxxFilter (GenericFilter):
def __init__ (self):
    GenericFilter.__init__ (self)

    self.skip_files |= set (
        # Contains no copyright of its own, but quotes the GPL.
        'intro.xml',
    )

    self.skip_dirs |= set (
        # Contains automatically-generated sources.
        'html',

        # The testsuite data files shouldn't be changed.
        'data',

        # Contains imported images
        'images',
    )

    self.own_files |= set (
        # Contains markup around the copyright owner.
        'spine.xml',
    )

def get_line_filter (self, dir, filename):
if filename == 'boost_concept_check.h':
    return re.compile ('// (C) Copyright Jeremy Siek')
return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
def __init__(self, errors):
    Copyright.__init__(self, errors)

canon_fsf = 'Free Software Foundation, Inc.'
self.add_package_author('Free Software Foundation', canon_fsf)
self.add_package_author('Free Software Foundation.', canon_fsf)
self.add_package_author('Free Software Foundation Inc.', canon_fsf)
self.add_package_author('Free Software Foundation, Inc', canon_fsf)
self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
self.add_package_author('The Free Software Foundation', canon_fsf)
self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
self.add_package_author('Software Foundation, Inc.', canon_fsf)

self.add_external_author('ARM')
self.add_external_author('AdaCore')
self.add_external_author('Ami Tavory and Vladimir Dreizn, IBM-HRL.')
self.add_external_author('Cavium Networks.')
self.add_external_author('Faraday Technology Corp.')
self.add_external_author('Florida State University')
self.add_external_author('Greg Colvin and Beman Dawes.')
self.add_external_author('Hewlett-Packard Company')
self.add_external_author('Information Technology Industry Council.')
self.add_external_author('James Theiler, Brian Gough')
self.add_external_author('Makoto Matsumoto and Takuji Nishimura,')
self.add_external_author('National Research Council of Canada.')
self.add_external_author('Peter Dimov and Multi Media Ltd.')
self.add_external_author('Peter Dimov')
self.add_external_author('Pipeline Associates, Inc.')
self.add_external_author('Regents of the University of California.')
self.add_external_author('Silicon Graphics Computer Systems, Inc.')
self.add_external_author('Silicon Graphics')
self.add_external_author('Stephen L. Moshier')
self.add_external_author('Sun Microsystems, Inc. All rights reserved.')
self.add_external_author('The Go Authors. All rights reserved.')
self.add_external_author('The Go Authors.')
self.add_external_author('The Regents of the University of California.')
self.add_external_author('Unicode, Inc.')
self.add_external_author('University of Toronto.')

class GCCCmdLine (CmdLine):
    def __init__(self):
        CmdLine.__init__(self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
self.add_dir('fixincludes')
self.add_dir('gcc', GCCFilter())
self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
self.add_dir('gnatools')
self.add_dir('include')
self.add_dir('libada')
self.add_dir('libatomic')
self.add_dir('libbacktrace')
self.add_dir('libcpp', LibCppFilter())
self.add_dir('libdecnumber')
    # libffi is imported from upstream.
self.add_dir('libgcc', LibGCCFilter())
self.add_dir('libgfortran')
self.add_dir('libgomp')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libjava', LibJavaFilter())
self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir('libmudflap', LibMudflapFilter())
self.add_dir(os.path.join('libmudflap', 'testsuite'), TestsuiteFilter())
self.add_dir('libobjc')
self.add_dir('libquadmath')
    # libsanitiser is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('lto-plugin')
    # zlib is imported from upstream.

self.default_dirs = ['gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libibitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.
The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)}) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agt@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.cs.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
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/**
* This interface provides information about a permission that can be
* granted. Note that this is <em>not</em> the same as the class
* <code>java.security.Permission</code>.
*
* @version 0.0
*
* @author Aaron M. Renn (arenn@urbanophile.com)
*/

public interface Permission
{
    /**
     * This method tests whether or not a specified <code>Permission</code>
     * (passed as an <code>Object</code>) is the same as this permission.
     *
     * @param perm The permission to check for equality
     *
     * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
     */
    boolean equals (Object perm);

    /**
     * This method returns this <code>Permission</code> as a <code>String</code>.
     *
     * @return A <code>String</code> representing this permission.
     */
    String toString();
}

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Version 2.1, February 1999

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the `copyright` line and a pointer to where the full notice is found.

@example
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}

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@end example

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

@example
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}. This is free software, and you are welcome to redistribute it under certain conditions; type @samp{show c} for details.
@end example

The hypothetical commands @samp{show w} and @samp{show c} should show the appropriate parts of the General Public License. Of course, your
program's commands might be different; for a GUI interface, you would use an ``about box''.

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

}
public boolean inConstructor() {
    return true;
}

public boolean inMethod() {
    return true;
}

public boolean inOverview() {
    return true;
}

public boolean inPackage() {
    return true;
}

public boolean inType() {
    return true;
}

public boolean isInlineTag() {
    return false;
}

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    } else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>");
        }
    }
}

if (haveValidTag) {
    StringBuffer result = new StringBuffer();
    result.append("<dl>");
}
for (int i = 0; i < tags.length; i++) {
    if (tags[i].text().length() > 0) {
        result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>");
    }
}
result.append("</dl>");
return result.toString();

else {
    return null;
}
}

@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
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c man end
@end ignore
@c This file is intended to be included in another file.

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/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 * *
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 * *
 * <p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 */
public abstract class Permission implements Guard, Serializable {

    private static final long serialVersionUID = -563657022231596674L;

    private String name;

    public Permission(String name) {
        this.name = name;
    }

    public void checkGuard(Object obj) {
        SecurityManager sm = System.getSecurityManager();
        if (sm != null) {
            sm.checkPermission(this);
        }
    }
}
/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 *
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();
/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 *
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')'</code>.
 *
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    if (!(getActions().equals(""))){
        string = string.append(' ');
        string = string.append(getActions());
    }
    string = string.append(')');
    return string.toString();
}
} // class Permission
@ignore
@c Set file name and title for man page.
@setfilename gfdl
@settitle GNU Free Documentation License
@c man begin SEEALSO
gpl(7), fsf-funding(7).
@c man end
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package java.security.acl;

/**
 * This interface provides information about a permission that can be
 * granted. Note that this is <em>not</em> the same as the class
 * <code>java.security.Permission</code>.
 * @version 0.0
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
/**
 * This method tests whether or not a specified <code>Permission</code>
 * (passed as an <code>Object</code>) is the same as this permission.
 * @param perm The permission to check for equality
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
 */
boolean equals (Object perm);
/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 *
 * @return A <code>String</code> representing this permission.
 */
String toString();
}

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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
underscores, we are using prefix "."s to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
```c
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS */
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
    that says to advance the location counter by SIZE bytes. */
#define ASM_OUTPUT_SKIP(FILE, SIZE) "fprintf (FILE, "$t.space HOST_WIDE_INT_PRINT_UNSIGNED$\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
    to define a global common symbol. */
#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) "( fputs (".comm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u\n", (int)(ROUNDED))"

/* This says how to output an assembler line
    to define a local common symbol. */
#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) "( fputs (".lcomm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u\n", (int)(ROUNDED))"

#if defined HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) "( fputs (".lcomm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))"
#endif

/* This is how to output an assembler line
    that says to advance the location counter
to a multiple of 2**LOG bytes. */
#define ASM_OUTPUT_ALIGN(FILE, LOG) "if ((LOG)!=0) fprintf ((FILE), "$t.align %d$\n", (LOG))"

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where

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PREFIX is the class of label and NUM is the number within the class. This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\  
    sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "_

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.tools.doclets.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
        return true;
    }

    public boolean isInlineTag() {

return false;
}

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    } else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>");
            for (int i = 0; i < tags.length; i++) {
                if (tags[i].text().length() > 0) {
                    result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>");
                }
            result.append("</dl>");
            return result.toString();
        } else {
            return null;
        }
    }
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Developed by:

LLVM Team

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 */
something else entirely. Similarly, the action list only has meaning
within the context of a subclass. Some permission names may have no
actions associated with them. That is, you either have the permission
or you don't.

The most important method in this class is \texttt{implies}. This
checks whether if one has this permission, then the specified
permission is also implied. As a conceptual example, consider the
permissions "Read All Files" and "Read File foo". The permission
"Read All Files" implies that the caller has permission to read the
file foo.

\texttt{Permission}'s must be immutable - do not change their
state after creation.

@see Permissions
@see PermissionCollection
@since 1.1
@status updated to 1.4

public abstract class Permission implements Guard, Serializable
{
    /**
     * Compatible with JDK 1.1+
     */
    private static final long serialVersionUID = -5636570222231596674L;

    /**
     * This is the name assigned to this permission object.
     *
     * @serial the name of the permission
     */
    private String name;

    /**
     * Create an instance with the specified name.
     *
     * @param name the permission name
     */
    public Permission(String name)
    {
        this.name = name;
    }

    /**
     * This method implements the \texttt{Guard} interface for this class.
     * It calls the \texttt{checkPermission} method in
* <code>SecurityManager</code> with this <code>Permission</code> as its argument. This method returns silently if the security check succeeds or throws an exception if it fails.
* 
* @param obj the <code>Object</code> being guarded - ignored by this class
* @throws SecurityException if the security check fails
* @see GuardedObject
* @see SecurityManager#checkPermission(Permission)
*/
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
* This method tests whether this <code>Permission</code> implies that the specified <code>Permission</code> is also granted.
* 
* @param perm the <code>Permission</code> to test against
* @return true if perm is implied by this
*/
public abstract boolean implies(Permission perm);

/**
* Check to see if this object equals obj. Use <code>implies</code>, rather than <code>equals</code>, when making access control decisions.
* 
* @param obj the object to compare to
* @returns true if this object equals obj
*/
public abstract boolean equals(Object obj);

/**
* This method returns a hash code for this <code>Permission</code>. It must satisfy the contract of <code>Object.hashCode</code>: it must be the same for all objects that equals considers to be the same.
* 
* @return a hash value
*/
public abstract int hashCode();

/**
* Get the name of this <code>Permission</code>. 
* 
* @returns the name
*/
public final String getName()}
{ return name; }

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>"(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')"</code>.
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();
    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' '); 
    string = string.append(getName()); 
    if (!(getActions().equals("")))
    {
        string = string.append('"');
        string = string.append(getActions());
        string = string.append('"');
    }
    string = string.append(')');
    return string.toString();
}
string = string.append(' ');  
string = string.append(getActions());
}

string = string.append(''));  
return string.toString();
}
} // class Permission

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Version 2.1, February 1999

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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix '.s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS */
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME)

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE) 
    fprintf (FILE, "\t.space HOST_WIDE_INT_PRINT_UNSIGNED\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) 
    fputs (".comm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u\n", (int)(ROUNDED)))
/* This says how to output an assembler line 
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
  ( fputs (".lcomm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u
", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
  ( fputs (".lcomm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u,%u
", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line 
that says to advance the location counter 
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)	
    if ((LOG)!=0) fprintf ((FILE), 	".align %d
", (LOG))

/* This is how to store into the string BUF 
the symbol_ref name of an internal numbered label where 
PREFIX is the class of label and NUM is the number within the class. 
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)	
    sprintf ((BUF), 
France%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.
The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlef(detlef@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agt@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.

Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
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This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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The modified work must itself be a software library.

You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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medium customarily used for software interchange.

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

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

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

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

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

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

@item
As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

@enumerate
@item Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable work that uses the Library, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
@item Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
@item Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
@item If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
@item Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
@end enumerate

For an executable, the required form of the `work that uses the
Library must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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@enumerate a
@item
Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
@item
Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
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@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
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@appendixsubsec How to Apply These Terms to Your New Libraries

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everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
``copyright'' line and a pointer to where the full notice is found.

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@var{one line to give the library's name and an idea of what it does.}
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

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Ty Coon, President of Vice

That's all there is to it!

Jan 21, 2002

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[This is the first released version of the Lesser GPL. It also counts
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version number 2.1.]
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@appendixsubsec Preamble

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

This license, the Lesser General Public License, applies to some
specially designated software---typically libraries---of the Free
Software Foundation and other authors who decide to use it. You can use
it too, but we suggest you first think carefully about whether this
license or the ordinary General Public License is the better strategy to
use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
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To protect your rights, we need to make restrictions that forbid
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For example, if you distribute copies of the library, whether gratis
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it. And you must show them these terms so they know their rights.
We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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==============================================================================
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<table>
<thead>
<tr>
<th>Program</th>
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<td>mach_override</td>
<td>lib/interception/mach_override</td>
</tr>
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#!/usr/bin/python
#
# Copyright (C) 2013 Free Software Foundation, Inc.
#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
#    update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#    update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report (self, filename, string):
        if filename:
string = filename + ': ' + string
sys.stderr.write (string + '\n')
self.num_errors += 1

def ok (self):
    return self.num_errors == 0

class GenericFilter:
    def __init__ (self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set ({
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'decomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.m4',
            'ltversion.m4',
            'lt--obsolete.m4',
            'missing',
            'mkdep',
            'mkinstalledirs',
            'move-if-change',
            'shlibpath.m4',
            'symlink-tree',
            'ylwrap',
        })
def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True
    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True
    # Skip configure files produced by autoconf
    if filename in ['configure']:
        if os.path.exists (base + '.ac'):
            return True
        if os.path.exists (base + '.in'):
            return True
    return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
if filename in self.fossilised_files:
    return True

# Only touch current ChangeLogs.
if filename != 'ChangeLog' and filename.find('ChangeLog') >= 0:
    return True

return False

def by_package_author(self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__(self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '\[0-9][-0-9,\s]+\[0-9\]

        # Non-whitespace characters in a copyright holder's name.
        name = '\w,\.-'

        # Matches one year.
        self.year_re = re.compile('\[0-9]+\)

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile(ranges + '|\[\w,-\]

        # Matches a full copyright notice:
        self.copyright_re = re.compile (r
            # 1: 'Copyright (C)', etc.
            '([Cc]opyright
            ')'\[Cc\]opyright\s+\(|[Cc]\)
            '([Cc]opyright\s+%s
            '([Cc]opyright\s+&copy;
            '([Cc]opyright\s+@copyright\}
            '@set\s+copyright\[w-\]+\)

            # 2: the years. Include the whitespace in the year, so that
            # we can remove any excess.
            '\s*(?:' + ranges + ':?\)
            '@value\{(\^[\[ ]\}\})\s*\)

            # 3: 'by ', if used
            '(@by\s+)'?

            # 4: the copyright holder. Don't allow multiple consecutive
            # spaces, so that right-margin gloss doesn't get caught
            # (e.g. gnat_ugn.texi).
            '\)' + name + '(\s?' + name + '+\s)*\)'
# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
    re.IGNORECASE)
self.comment_re = re.compile('#*|[*]+|;+|%+|//+|@c|dnl')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '.
self.separator = ','

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

    def parse_year (self, string):
        year = int (string)
        if len (string) == 2:
            if year > 70:
                return year + 1900
            elif len (string) == 4:
                return year
            raise self.BadYear (string)

    def year_range (self, years):
year_list = [self.parse_year (year)
    for year in self.year_re.findall (years)]
assert len (year_list) > 0
return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years
    (min_year, max_year) = self.year_range (years)
    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
        and (holder not in self.holder_prefixes
            or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
if intro.startswith('@set'):
    # Texinfo year variables should always be on one line
    after_years = line[match.end(2):].strip()
    if after_years != ':
        self.errors.report(pathname,
                           'trailing characters in @set: ' + after_years)
        return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete(match):
            try:
                next_line = file.next()
            except StopIteration:
                break
        # If the next line doesn't look like a proper continuation,
        # assume that what we've got is complete.
        continuation = self.strip_continuation(next_line)
        if not self.continuation_re.match(continuation):
            break
        # Merge the lines for matching purposes.
        orig_line += next_line
        line = line.rstrip() + ' ' + continuation
        next_line = None
        # Rematch with the longer line, at the original position.
        match = self.copyright_re.match(line, match.start())
        assert match
        holder = match.group(4)
        # Use the filter to test cases where markup is getting in the way.
        if filter.by_package_author(dir, filename):
            assert holder not in self.holders
        elif not holder:
            self.errors.report(pathname, 'missing copyright holder')
            return (False, orig_line, next_line)
        elif holder not in self.holders:
            self.errors.report(pathname, 'unrecognised copyright holder: ' + holder)
            return (False, orig_line, next_line)
        else:
            # See whether the copyright is associated with the package
```python
# author.
canon_form = self.holders[holder]
if not canon_form:
    return (False, orig_line, next_line)

# Make sure the author is given in a consistent way.
line = (line[:match.start(4)]
    + canon_form
    + line[match.end(4):])

# Remove any 'by'
line = line[:match.start(3)] + line[match.end(3):]

# Update the copyright years.
years = match.group(2).strip()
try:
    canon_form = self.canonicalise_years(dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report(pathname, str(e))
    return (False, orig_line, next_line)

line = (line[:match.start(2)]
    + ' ' + canon_form + self.separator
    + line[match.end(2):])

# Use the standard (C) form.
if intro.endswith('right'):
    intro += ' (C)'
elif intro.endswith('(c)'):
    intro = intro[:-3] + '(C)'
line = line[:match.start(1)] + intro + line[match.end(1):]

# Strip trailing whitespace
line = line.rstrip() + '\n'
return (line != orig_line, line, next_line)

def process_file(self, dir, filename, filter):
    pathname = os.path.join(dir, filename)
    if filename.endswith('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove(pathname)
        except OSError:
            pass
        return

    lines = []
```

changed = False
line_filter = filter.get_line_filter (dir, filename)
with open (pathname, 'r') as file:
    prev = None
    for line in file:
        while line:
            next_line = None
            # Leave filtered-out lines alone.
        if not (line_filter and line_filter.match (line)):
            match = self.copyright_re.search (line)
            if match:
                res = self.update_copyright (dir, filename, filter,
                                            file, line, match)
                (this_changed, line, next_line) = res
                changed = changed or this_changed
            # Check for copyright lines that might have slipped by.
            elif self.other_copyright_re.search (line):
                self.errors.report (pathname,
                                    'unrecognised copyright: %s'
                                    % line.strip())
                lines.append (line)
                line = next_line

        # If something changed, write the new file out.
        if changed and self.errors.ok():
            tmp_pathname = pathname + '.tmp'
            with open (tmp_pathname, 'w') as file:
                for line in lines:
                    file.write (line)
            if self.use_quilt:
                subprocess.call (["quilt", 'add', pathname])
            os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s
os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)
class CmdLine:
    def __init__(self, copyright=Copyright):
        self.errors = Errors()
        self.copyright = copyright(self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option('--help', 'Print this help', self.o_help)
        self.add_option('--quilt', "'quilt add' files before changing them',
                        self.o_quilt)
        self.add_option('--this-year', 'Add the current year to every notice',
                        self.o_this_year)

    def add_option(self, name, help, handler):
        self.option_help.append((name, help))
        self.option_handlers[name] = handler

    def add_dir(self, dir, filter=GenericFilter()):
        self.dirs.append((dir, filter))

    def o_help(self, option=None):
        sys.stdout.write('Usage: %s [options] dir1 dir2...

Options:
')
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write(format % (what, help))
            sys.stdout.write('Directories:
')
        format = '%-25s'
        i = 0
        for (dir, filter) in self.dirs:
            i += 1
            if i % 3 == 0 or i == len(self.dirs):
                sys.stdout.write(dir + '
')
            else:
                sys.stdout.write(format % dir)
        sys.exit(0)

    def o_quilt(self, option):
        self.copyright.set_use_quilt(True)

    def o_this_year(self, option):
        self.copyright.include_year(time.localtime().tm_year)
def main(self):
    for arg in sys.argv[1:]:
        if arg[1:] != '-':
            self.chosen_dirs.append(arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg](arg)
        else:
            self.errors.report(None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len(self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len(self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join(chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith(canon_dir):
                        count += 1
                        self.copyright.process_tree(dir, filter)
                if count == 0:
                    self.errors.report(None, 'unrecognised directory: ' + chosen_dir)
                sys.exit(0 if self.errors.ok() else 1)

#----------------------------------------------------------

class TopLevelFilter(GenericFilter):
    def skip_dir(self, dir, subdir):
        return True

class ConfigFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
    def skip_file(self, dir, filename):
        if filename.endswith('.m4'):
            pathname = os.path.join(dir, filename)
            with open(pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file(self, dir, filename)

class GCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
self.skip_files |= set([
    # Not part of GCC
    'math-68881.h',
])

self.skip_dirs |= set([
    # Better not create a merge nightmare for the GNAT folks.
    'ada',

    # Handled separately.
    'testsuite',
])

self.skip_extensions |= set([
    # Maintained by the translation project.
    '.po',

    # Automatically-generated.
    '.pot',
])

self.fossilised_files |= set([
    # Old news won't be updated.
    'ONEWS',
])

class TestsuiteFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
        ])

    def skip_file(self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.

if filename == 'README' and os.path.basename(dir) == 'g++.niklas':
    return True
return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set(['
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set(['
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set(['
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ])

def get_line_filter(self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter(self, dir, filename)
class LibMudflapFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Handled separately.
            'testsuite',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set([
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])

        self.own_files |= set([
            # Contains markup around the copyright owner.
            'spine.xml',
        ])

    def get_line_filter(self, dir, filename):
        if filename == 'boost_concept_check.h':
            return re.compile('// (C) Copyright Jeremy Siek')
        return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright (Copyright):
    def __init__(self, errors):
        Copyright.__init__(self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author('Free Software Foundation', canon_fsf)
        self.add_package_author('Free Software Foundation', canon_fsf)
        self.add_package_author('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc', canon_fsf)
self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
self.add_package_author('The Free Software Foundation', canon_fsf)
self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
self.add_package_author('Software Foundation, Inc.', canon_fsf)

self.add_external_author('ARM')
self.add_external_author('AdaCore')
self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
self.add_external_author('Cavium Networks.')
self.add_external_author('Faraday Technology Corp.')
self.add_external_author('Florida State University')
self.add_external_author('Greg Colvin and Beman Dawes.')
self.add_external_author('Hewlett-Packard Company')
self.add_external_author('Information Technology Industry Council')
self.add_external_author('James Theiler, Brian Gough')
self.add_external_author('Makoto Matsumoto and Takuji Nishimura,')
self.add_external_author('National Research Council of Canada.')
self.add_external_author('Peter Dimov and Multi Media Ltd.')
self.add_external_author('Peter Dimov')
self.add_external_author('Pipeline Associates, Inc.')
self.add_external_author('Regents of the University of California.')
self.add_external_author('Silicon Graphics Computer Systems, Inc.')
self.add_external_author('Silicon Graphics')
self.add_external_author('Stephen L. Moshier')
self.add_external_author('Sun Microsystems, Inc. All rights reserved.')
self.add_external_author('The Go Authors. All rights reserved.')
self.add_external_author('The Go Authors. All rights reserved.')
self.add_external_author('The Regents of the University of California.')
self.add_external_author('Unicode, Inc.')
self.add_external_author('University of Toronto.')

class GCCCmdLine(CmdLine):
    def __init__(self):
        CmdLine.__init__(self, GCCCopyright)

        self.add_dir('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir('fixincludes')
        self.add_dir('gcc', GCCFilter())
        self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir('gnattools')
        self.add_dir('include')
        self.add_dir('libada')
        self.add_dir('libatomic')
        self.add_dir('libbacktrace')
self.add_dir ('libcpp', LibCppFilter())
self.add_dir ('libdecnumber')
# libffi is imported from upstream.
self.add_dir ('libgcc', LibGCCFilter())
self.add_dir ('libgfortran')
self.add_dir ('libgomp')
self.add_dir ('libiberty')
self.add_dir ('libitm')
self.add_dir ('libjava', LibJavaFilter())
self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir ('libmudflap', LibMudflapFilter())
self.add_dir (os.path.join ('libmudflap', 'testsuite'),
TestsuiteFilter())
self.add_dir ('libobjc')
self.add_dir ('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir ('libssp')
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Gocheck - A rich testing framework for Go

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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

   Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfff2bb5b6.

   Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

   Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

   Author: Julio Merino <jmmv84@gmail.com>

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

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 xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 xmlns:xi="http://www.w3.org/2001/XInclude"
 xmlns:db="http://docbook.org/ns/docbook">
 <xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
   <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text" select="$rest"/>
   </xsl:call-template>
  </xsl:if>
 </xsl:template>

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</xsl:variable>

<xsl:variable name="isc.copyright">
 <xsl:call-template name="isc.copyright.format">
  <xsl:with-param name="text">
   <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
    Copyright (C) <xsl:text>
  </xsl:text>Copyright (C) <xsl:text>
  <xsl:call-template name="copyright.years">
   <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text>
  </xsl:text>
  </xsl:for-each>

  </xsl:call-template>
 </xsl:text>
 </xsl:text>

  <xsl:value-of select="$isc.copyright.breakline"/>
  <xsl:text>&#10;</xsl:text>
</xsl:variable>
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  e) When the GNU General Public License (GPL) applies to the changes,
you can distribute the modified Vim under the GNU GPL version 2 or
any later version.
3) A message must be added, at least in the output of the ":version"
command and in the intro screen, such that the user of the modified Vim
is able to see that it was modified. When distributing as mentioned
under 2)e) adding the message is only required for as far as this does
not conflict with the license used for the changes.
4) The contact information as required under 2)a) and 2)d) must not be
removed or changed, except that the person himself can make
corrections.

III) If you distribute a modified version of Vim, you are encouraged to use
the Vim license for your changes and make them available to the
maintainer, including the source code. The preferred way to do this is
by e-mail or by uploading the files to a server and e-mailing the URL.
If the number of changes is small (e.g., a modified Makefile) e-mailing a
context diff will do. The e-mail address to be used is
<maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim
sources, parts of it or from a modified version. You may use this
license for previous Vim releases instead of the license that they came
with, at your option.

=== end of license ===

Note:

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

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

- According to Richard Stallman the Vim license is GNU GPL compatible.
  A few minor changes have been made since he checked it, but that should not
  make a difference.
- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

==============================================================================
Kibaale Children's Centre*Kcc* Kibaale* charity*

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

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

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

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

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

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

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

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

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

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

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

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

Sending money:*iccf-donations*

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

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

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

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

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

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

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

Others: Transfer to one of these accounts if possible:
   Postbank, account 4548774
   Swift code: INGB NL 2A
   IBAN: NL95 INGB 0004 5487 74
   under the name "stichting ICCF Holland", Lisse
   If that doesn't work:
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Otherwise, send a check in euro or US dollars to the address
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   Switzerland

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<signature of Ty Coon>, 1 April 1990
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 */
1.386 stackblur 0.5

1.387 iprutils 2.4.16.1 1.el7

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File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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Additional -

File: PSReadLine

https://github.com/izybkz/PSReadLine

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File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PackageManagement
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* /opt/ws_local/PERMITS_SQL/1068906864_1594434505.79/0/spring-security-core-5-1-3-release-sources-1-jar/org/springframework/security/crypto/password/AbstractPasswordEncoder.java
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*/
A token issued by [@link TokenService].

It is important that the keys assigned to tokens are sufficiently randomised and secured that they can serve as identifying a unique user session. Implementations of [@link TokenService] are free to use encryption or encoding strategies of their choice. It is strongly recommended that keys are of sufficient length to balance safety against persistence cost. In relation to persistence cost, it is strongly recommended that returned keys are small enough for encoding in a cookie.

@since 2.0.1
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 */

/**
 * Reviews the <code>Object</code> returned from a secure object invocation, being able to
 * modify the <code>Object</code> or throw an {@link AccessDeniedException}.  
 * Typically used to ensure the principal is permitted to access the domain object
 * instance returned by a service layer bean. Can also be used to mutate the domain object
 * instance so the principal is only able to access authorised bean properties or
 * <code>Collection</code> elements.
 * Special consideration should be given to using an <code>AfterInvocationManager</code>
 * on beans methods that modify a database. Typically an
 * <code>AfterInvocationManager</code> is used with read-only methods, such as
 * <code>public DomainObject getById(id)</code>. If used with methods that modify a
 * database, a transaction manager should be used to ensure any
 * <code>AccessDeniedException</code> will cause a rollback of the changes made by the
 * transaction.
 *  
 * @author Ben Alex
 */

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* /opt/ws_local/PERMITS_SQL/1068906864_1594434505.79/0/spring-security-core-5-1-3-release-sources-1-jar/org/springframework/security/access/intercept/AfterInvocationManager.java

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jar/org/springframework/security/jackson2/RememberMeAuthenticationTokenMixin.java
* /opt/ws_local/PERMITS_SQL/1068906864_1594434505.79/0/spring-security-core-5-1-3-release-sources-1-
jar/org/springframework/security/jackson2/UnmodifiableSetMixin.java
* /opt/ws_local/PERMITS_SQL/1068906864_1594434505.79/0/spring-security-core-5-1-3-release-sources-1-
jar/org/springframework/security/jackson2/UsernamePasswordAuthenticationTokenMixin.java
* /opt/ws_local/PERMITS_SQL/1068906864_1594434505.79/0/spring-security-core-5-1-3-release-sources-1-
jar/org/springframework/security/jackson2/AnonymousAuthenticationTokenMixin.java
* /opt/ws_local/PERMITS_SQL/1068906864_1594434505.79/0/spring-security-core-5-1-3-release-sources-1-
jar/org/springframework/security/jackson2/CoreJackson2Module.java
* /opt/ws_local/PERMITS_SQL/1068906864_1594434505.79/0/spring-security-core-5-1-3-release-sources-1-
jar/org/springframework/security/jackson2/UserMixin.java
* /opt/ws_local/PERMITS_SQL/1068906864_1594434505.79/0/spring-security-core-5-1-3-release-sources-1-
jar/org/springframework/security/jackson2/CoreJackson2Module.java
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* /opt/ws_local/PERMITS_SQL/1068906864_1594434505.79/0/spring-security-core-5-1-3-release-sources-1-
jar/org/springframework/security/authentication/jaas/memory/InMemoryConfiguration.java
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*/
/**
 * Base64 encoder which is a reduced version of Robert Harder's public domain
 * implementation (version 2.3.7). See <a
 * href="http://iharder.net/base64">http://iharder.net/base64</a> for more information.
 * <p>
 * For internal use only.
 *
 * @author Luke Taylor
 * @since 3.0
 * @deprecated Use java.util.Base64
 */

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* /opt/ws_local/PERMITS_SQL/1068906864_1594434505.79/0/spring-security-core-5-1-3-release-sources-1.jar/org/springframework/security/authentication/UsernamePasswordAuthenticationToken.java
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/**
* @param authentication represents the user in question. Should not be null.
* @param targetDomainObject the domain object for which permissions should be
* checked. May be null in which case implementations should return false, as the null
* condition can be checked explicitly in the expression.
* @param permission a representation of the permission object as supplied by the
* expression system. Not null.
* @return true if the permission is granted, false otherwise
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1.397 libcollection 0.7.0 32.el7

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package engine

import (
    "time"
    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
)

const (
    defaultSubscriptionsTableFormat = "table
    {{.Num}}	{{.Owner}}	{{.ProductID}}	{{.Expires}}	{{.ComponentsString}}"
    defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"
    numHeader               = "NUM"
    ownerHeader             = "OWNER"
    licenseNameHeader       = "NAME"
    idHeader                = "ID"
    dockerIDHeader          = "DOCKER ID"
    productIDHeader         = "PRODUCT ID"
    productRatePlanHeader   = "PRODUCT RATE PLAN"
    productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
    startHeader             = "START"
    expiresHeader           = "EXPIRES"
    stateHeader             = "STATE"
    eusaHeader              = "EUSA"
    pricingComponentsHeader = "PRICING COMPONENTS"
)

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
    switch source {
    case formatter.TableFormatKey:
        if quiet {
            return defaultSubscriptionsQuietFormat
        }
        return defaultSubscriptionsTableFormat
    case formatter.RawFormatKey:
        if quiet {
            return `license: {{.ID}}`
        }
        return `license: {{.ID}}
            name: {{.Name}}
            owner: {{.Owner}}
            components: {{.ComponentsString}}`
    }
    return formatter.Format(source)
}
func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
    render := func(format func(subContext formatter.SubContext) error) error {
        for _, sub := range subs {
            licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
            if err := format(licenseCtx); err != nil {
                return err
            }
        }
        return nil
    }
    licenseCtx := licenseContext{
        Header: map[string]string{
            "Num": numHeader,
            "Owner": ownerHeader,
            "Name": licenseNameHeader,
            "ID": idHeader,
            "DockerID": dockerIDHeader,
            "ProductID": productIdHeader,
            "ProductRatePlan": productRatePlanHeader,
            "ProductRatePlanID": productRatePlanIDHeader,
            "Start": startHeader,
            "Expires": expiresHeader,
            "State": stateHeader,
            "Eusa": eusaHeader,
            "ComponentsString": pricingComponentsHeader,
        }
    }
    return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
    formatter.HeaderContext
    trunc bool
    l licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
    return formatter.MarshalJSON(c)
}

func (c *licenseContext) Num() int {
    return c.l.Num
}

func (c *licenseContext) Owner() string {
    return c.l.Owner
}
func (c *licenseContext) ComponentsString() string {
    return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
    return c.l.String()
}

func (c *licenseContext) Name() string {
    return c.l.Name
}

func (c *licenseContext) ID() string {
    return c.l.ID
}

func (c *licenseContext) DockerID() string {
    return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
    return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
    return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
    return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
    return c.l.Expires
}

func (c *licenseContext) State() string {
    return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
    return c.l.Eusa
}
func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
    // Dereference the pricing component pointers in the pricing components
    // so it can be rendered properly with the template formatter

    var ret []model.SubscriptionPricingComponent
    for _, spc := range c.l.PricingComponents {
        if spc == nil {
            continue
        }
        ret = append(ret, *spc)
    }
    return ret
}

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package engine

import (   "bytes"   "encoding/json"   "strings"   "testing"   "time"
func TestSubscriptionContextWrite(t *testing.T) {
    cases := []struct {
        context  formatter.Context
        expected string
    }{
    // Errors

    
    formatter.Context{Format: "{{InvalidFunction}}"},
    // Template parsing error: template: :1: function "InvalidFunction" not defined
    
    
    
    
    formatter.Context{Format: "{{nil}}"},
    // Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command
    
    
    
    
    // Table format

    
    formatter.Context{Format: NewSubscriptionsFormat("table", false)},
    // NUM    OWNER           PRODUCT ID          EXPIRES                        PRICING COMPONENTS
    1    owner1     productid1  2020-01-01 10:00:00 +0000 UTC   compstring
    2    owner2     productid2  2020-01-01 10:00:00 +0000 UTC   compstring
    
    
    
    formatter.Context{Format: NewSubscriptionsFormat("table", true)},
    // License Name: name1 Quantity: 10 nodes Expiration date: 2020-01-01
    1: License Name: name1 Quantity: 10 nodes Expiration date: 2020-01-01
    
    
    
    formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
    // OWNER
    owner1
    owner2
    
    
    formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", true)},
    // OWNER
    owner1
}
```go
owner2
`,
},
// Raw Format
{
'license: id1
name: name1
owner: owner1
components: compstring

license: id2
name: name2
owner: owner2
components: compstring
`,
},
{
formatter.Context{Format: NewSubscriptionsFormat("raw", true)},
'license: id1
license: id2`
`,
},
// Custom Format
{
formatter.Context{Format: NewSubscriptionsFormat("{{.Owner}}", false)},
'owner1
owner2`
`,
},
}
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
subscriptions := []licenseutils.LicenseDisplay{
{
Num: 1,
Owner: "owner1",
Subscription: model.Subscription{
ID: "id1",
Name: "name1",
ProductID: "productid1",
Expires: &expiration,
PricingComponents: model.PricingComponents{
&model.SubscriptionPricingComponent{
Name: "nodes",
```
func TestSubscriptionContextWriteJSON(t *testing.T) {
    expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num:   1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID:        "id1",
                Name:      "name1",
                ProductID: "productid1",
                Expires:   &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name:  "nodes",
                        Value: 20,
                    },
                },
                ComponentsString: "compstring",
            },
        },
        {
            Num:   2,
            Owner: "owner2",
            Subscription: model.Subscription{
                ID:        "id2",
                Name:      "name2",
                ProductID: "productid2",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name:  "nodes",
                        Value: 20,
                    },
                },
                ComponentsString: "compstring",
            },
        },
    }
    out := &bytes.Buffer{
        testcase.context.Output = out
        err := SubscriptionsWrite(testcase.context, subscriptions)
        if err != nil {
            assert.Error(t, err, testcase.expected)
        } else {
            assert.Check(t, is.Equal(testcase.expected, out.String()))
        }
    }
}
Name: "nodes",
Value: 10,
},
},
},
ComponentsString: "compstring",
},
{  
Num: 2,
Owner: "owner2",
Subscription: model.Subscription{
ID: "id2",
Name: "name2",
ProductID: "productid2",
Expires: &expiration,
PricingComponents: model.PricingComponents{
[model.SubscriptionPricingComponent{
Name: "nodes",
Value: 20,
},
},
},
ComponentsString: "compstring",
},
}
}
expectedJSONs := []map[string]interface{}{
{  
"Owner": "owner1",
"ComponentsString": "compstring",
"Expires": "2020-01-01T10:00:00Z",
"DockerID": "",
"Eusa": nil,
"ID": "id1",
"Start": nil,
"Name": "name1",
"Num": float64(1),
"PricingComponents": []interface{}{
map[string]interface{}{
"name": "nodes",
"value": float64(10),
},
},
"ProductID": "productid1",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01",
},
}
{  "Owner": "owner2",  "ComponentsString": "compstring",  "Expires": "2020-01-01T10:00:00Z",  "DockerID": "",  "Eusa": nil,  "ID": "id2",  "Start": nil,  "Name": "name2",  "Num": float64(2),  "PricingComponents": []interface{}{
    map[string]interface{}{
      "name": "nodes",
      "value": float64(20),
    },
  },  "ProductID": "productid2",  "ProductRatePlan": "",  "ProductRatePlanID": "",  "State": "",  "Summary": "License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01"}
}

t := &bytes.Buffer{}  
err := SubscriptionsWrite(formatter.Context{Format: "{{json .}}", Output: t}, subscriptions)  
if err != nil {  
t.Fatal(err)  }
for i, line := range strings.Split(strings.TrimSpace(t.String()), "\n") {  
var m map[string]interface{}  
if err := json.Unmarshal([]byte(line), &m); err != nil {  
t.Fatal(err)  }
assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}

func TestSubscriptionContextWriteJSONField(t *testing.T) {
  subscriptions := []licenseutils.LicenseDisplay{
    {Num: 1, Owner: "owner1"},
    {Num: 2, Owner: "owner2"},
  }
  out := &bytes.Buffer{}  
  if err != nil {  
t.Fatal(err)  }
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
    var s string
    if err := json.Unmarshal([]byte(line), &s); err != nil {
        t.Fatal(err)
    }
    assert.Check(t, is.Equal(subscriptions[i].Owner, s))
}

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package licensing

import (
func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {
    url := c.baseURI
    url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)

    license := new(model.IssuedLicense)
    if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
        return nil, err
    }

    return license, nil
}

func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
    keyID := license.KeyID
    privateKey := license.PrivateKey
    authorization, err := c.getAuthorization(ctx, license)
    if err != nil {
        return nil, err
    }

    signature, err := libtrust.ParseJWS(authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{"key_id": keyID, "license parse JWS failed"})
    }

    keys, err := signature.Verify()
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
            "license parse JWS failed"
        })
    }

    return
}
"key_id": keyID,
}, "license signature verification failed"
}

keyCnt := len(keys)
if keyCnt != 1 {
  err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
  return nil, errors.WithStack(err).With(errors.Fields{
    "key_id": keyID,
  })
}

key := keys[0]
if !c.recognizedSigningKey(key) {
  return nil, errors.New("unrecognized signing key")
}

payload, err := signature.Payload()
if err != nil {
  return nil, errors.Wrapf(err, errors.Fields{
    "key_id": keyID,
  }, "malformed signature payload")
}

checkRes := new(model.CheckResponse)
err = json.Unmarshal(payload, &checkRes)
if err != nil {
  return nil, errors.Wrapf(err, errors.Fields{
    "key_id": keyID,
  }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
  return nil, errors.Wrap(err, errors.Fields{
    "key_id": keyID,
  })
}

return checkRes, nil

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
  for _, publicKey := range c.publicKeys {
    if key.KeyID() == publicKey.KeyID() {
      return true
    }
  }
  return false
}
return true
}
return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": license.KeyID,
    }, "decoding license authorization failed")
}
return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly
// formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
tokenBytes, err := base64.URLEncoding.DecodeString(token)
if err != nil {
    return errors.Wrap(err, errors.Fields{"token": token})
}
generatedToken, err := generateToken(message, privateKey)
if err != nil {
    return errors.Wrap(err, errors.Fields{"token": token})
}
generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
if err != nil {
    return errors.Wrap(err, errors.Fields{"token": token})
}
if !hmac.Equal(tokenBytes, generatedBytes) {
    return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
}
return nil
}

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
    if err != nil {
        return "", errors.Wrap(err, errors.Fields{"msg": message})
    }

    h := hmac.New(sha256.New, key)
    h.Write([]byte(message))
    return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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package model

import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed json blob.
type CheckResponse struct {
    Expiration time.Time `json:"expiration"`
    Token string `json:"token"`
    MaxEngines int `json:"maxEngines"`
    ScanningEnabled bool `json:"scanningEnabled"`
    Type string `json:"licenseType"`
    Tier string `json:"tier"`
}

// IssuedLicense represents an issued license
type IssuedLicense struct {
    KeyID string `json:"key_id"`
    PrivateKey string `json:"private_key"`
    Authorization string `json:"authorization"`
}

// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
    if l.KeyID == "" {
        return false, "empty key_id"
    }
    if l.PrivateKey == "" {
        return false, "empty private_key"
    }
    if l.Authorization == "" {
        return false, "empty authorization"
    }
    return true, ""
}

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Zstd-jni: JNI bindings to Zstd Library

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57c721e38d1266c2df055067c18f2cf9 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

 Device Boot Start End Blocks Id System
-------------------

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

 Device Boot Start End Blocks Id System
__ts_dev__1 2048 4095 1024 83 Linux

Open Source Used In Identity Services Engine 3.0 8258
Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot      Start         End      Blocks   Id  System
__ts_dev__1            2048        4095        1024   83  Linux
__ts_dev__2            4096       20479        8192   a5  FreeBSD
-------------------
Create default BSD
2e1cee529cf59c9341afe0443f196a1 bsd.img

---layout----------
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#    start   end    size   ftype [fsize bsize   cpg]
c: 4096   20479   16384   unused    0   0
.d: 0   16064   16065   unused    0   0

BSD disklabel command (m for help):
Command (m for help):
-------------------
b5c121c2091b2ff26b880551feac7112 bsd.img

---layout----------
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.
Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#       start       end      size     fstype   [fsize bsize   cpg]
a:     4096      6144      2049     4.2BSD        0     0     0
c:     4096     20479     16384     unused        0     0     0
d:        0     16064     16065     unused        0     0     0

Command (m for help):

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0  unused           5  4.1BSD           9  4.4LFS           d  boot
1  swap             6  Eighth Edition   a  unknown          e  ADOS
2  Version 6        7  4.2BSD           b  HPFS             f  HFS
3  Version 7        8  MS-DOS           c  ISO-9660        10  AdvFS
4  System V

BSD disklabel command (m for help):
/
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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
---------- ----------- ------- ------ ------ -----------

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout-------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td>__ts_dev__1</td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
<td></td>
</tr>
</tbody>
</table>

Create 2nd primary partition
1beb87248e05d6e4e626749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd73fbe bsd.img

---layout-------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td>__ts_dev__1</td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
<td></td>
</tr>
<tr>
<td>__ts_dev__2</td>
<td>4096</td>
<td>20479</td>
<td>8192</td>
<td>a5</td>
<td>FreeBSD</td>
<td></td>
</tr>
</tbody>
</table>

Create default BSD
2e1cee529cb59e9341afe0443f196a1 bsd.img

---layout-------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start   end   size   fstype [fsizembizcpg]
c:  4096  20479  16384    unused   0   0
d: 0 16064 16065 unused 0 0

BSD disklabel command (m for help):
Command (m for help):
-------------------
b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start end size fstype [fs size bsize cpg]
a: 4096 6144 2049 4.2BSD 0 0 0
c: 4096 20479 16384 unused 0 0
d: 0 16064 16065 unused 0 0

BSD disklabel command (m for help):
Command (m for help):
-------------------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0 unused 5 4.1BSD 9 4.4LFS d boot
1 swap 6 Eighth Edition a unknown e ADOS
2 Version 6 7 4.2BSD b HPFS f HFS
3 Version 7 8 MS-DOS c ISO-9660 10 AdvFS
4 System V

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Version 2, June 1991

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package engine

import (  
"time"
  
"github.com/docker/cli/cli/command/formatter"
  
"github.com/docker/cli/internal/licenseutils"
  
"github.com/docker/licensing/model"
)
const (
    defaultSubscriptionsTableFormat = "table
    {{.Num}}	{{.Owner}}	{{.ProductID}}	{{.Expires}}	{{.ComponentsString}}"
    defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"
    numHeader               = "NUM"
    ownerHeader             = "OWNER"
    licenseNameHeader       = "NAME"
    idHeader                = "ID"
    dockerIDHeader          = "DOCKER ID"
    productIDHeader         = "PRODUCT ID"
    productRatePlanHeader   = "PRODUCT RATE PLAN"
    productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
    startHeader             = "START"
    expiresHeader           = "EXPIRES"
    stateHeader             = "STATE"
    eusaHeader              = "EUSA"
    pricingComponentsHeader = "PRICING COMPONENTS"
)

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
    switch source {
    case formatter.TableFormatKey:
        if quiet {
            return defaultSubscriptionsQuietFormat
        }
        return defaultSubscriptionsTableFormat
    case formatter.RawFormatKey:
        if quiet {
            return `license: {{.ID}}`
        }
        return `license: {{.ID}}\nname: {{.Name}}\nowner: {{.Owner}}\ncomponents: {{.ComponentsString}}\n` 
    }
    return formatter.Format(source)
}

// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
    render := func(format func(subContext formatter.SubContext) error) error {
        for _, sub := range subs {
            licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
            if err := format(licenseCtx); err != nil {
                return err
            }
        }
        return nil
    }
    return nil
licenseCtx := licenseContext{
    Header = map[string]string{
        "Num": numHeader,
        "Owner": ownerHeader,
        "Name": licenseNameHeader,
        "ID": idHeader,
        "DockerID": dockerIDHeader,
        "ProductID": productIdHeader,
        "ProductRatePlan": productRatePlanHeader,
        "ProductRatePlanID": productRatePlanIDHeader,
        "Start": startHeader,
        "Expires": expiresHeader,
        "State": stateHeader,
        "Eusa": eusaHeader,
        "ComponentsString": pricingComponentsHeader,
    }
}
return ctx.Write(&licenseCtx, render)
func (c *licenseContext) ID() string {
    return c.l.ID
}

func (c *licenseContext) DockerID() string {
    return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
    return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
    return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
    return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
    return c.l.Expires
}

func (c *licenseContext) State() string {
    return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
    return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
    // Dereference the pricing component pointers in the pricing components
    // so it can be rendered properly with the template formatter

    var ret []model.SubscriptionPricingComponent
    for _, spc := range c.l.PricingComponents {
        if spc == nil {
            continue
        }
        ret = append(ret, *spc)
} return ret

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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```
package engine

import (
    "bytes"
    "encoding/json"
    "strings"
    "testing"
    "time"
```
func TestSubscriptionContextWrite(t *testing.T) {
    cases := []struct {
        context  formatter.Context
        expected string
    }{
        // Errors
        formatter.Context{Format: "{{InvalidFunction}}"},
        Template parsing error: template: :1: function "InvalidFunction" not defined
        \\
        ,
        
        formatter.Context{Format: "{{nil}}"},
        Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command
        \\
        ,
        
        // Table format
        formatter.Context{Format: NewSubscriptionsFormat("table", false)},
        NUM  OWNER               PRODUCT ID          EXPIRES                         PRICING COMPONENTS 
        1    owner1              productid1          2020-01-01 10:00:00 +0000 UTC compstring
        2    owner2              productid2          2020-01-01 10:00:00 +0000 UTC compstring
        \\
        ,
        
        formatter.Context{Format: NewSubscriptionsFormat("table", true)},
        1:License Name: name1Quantity: 10 nodesExpiration date: 2020-01-01
        2:License Name: name2Quantity: 20 nodesExpiration date: 2020-01-01
        \\
        ,
        
        formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
        OWNER
        owner1
        owner2
        \\
        ,
        
        formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", true)},
        OWNER
    }
}
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
subscriptions := []licenseutils.LicenseDisplay{
    {
        Num:   1,
        Owner: "owner1",
        Subscription: model.Subscription{
            ID:        "id1",
            Name:      "name1",
            ProductID: "productid1",
            Expires:   &expiration,
            PricingComponents: model.PricingComponents{
                &model.SubscriptionPricingComponent
Name: "nodes",
Value: 10,
}
,
},
},
ComponentsString: "compstring",
},
}{
Num: 2,
Owner: "owner2",
Subscription: model.Subscription{
ID: "id2",
Name: "name2",
ProductID: "productid2",
Expires: &expiration,
PricingComponents: model.PricingComponents{
&model.SubscriptionPricingComponent{
Name: "nodes",
Value: 20,
},
},
 ComponentsString: "compstring",
},
}
out := &bytes.Buffer{

testcase.context.Output = out
err := SubscriptionsWrite(testcase.context, subscriptions)
if err != nil {
assert.Error(t, err, testcase.expected)
} else {
assert.Check(t, is.Equal(testcase.expected, out.String()))
}

func TestSubscriptionContextWriteJSON(t *testing.T) {
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
subscriptions := []licenseutils.LicenseDisplay{
{
Num: 1,
Owner: "owner1",
Subscription: model.Subscription{
ID: "id1",
Name: "name1",
ProductID: "productid1",
Expires: &expiration,
PricingComponents: model.PricingComponents{


&model.SubscriptionPricingComponent{
    Name: "nodes",
    Value: 10,
},

},

ComponentsString: "compstring",
},

Num: 2,
Owner: "owner2",
Subscription: model.Subscription{
    ID: "id2",
    Name: "name2",
    ProductID: "productid2",
    Expires: &expiration,
    PricingComponents: model.PricingComponents{
        &model.SubscriptionPricingComponent{
            Name: "nodes",
            Value: 20,
        },
        
    },

ComponentsString: "compstring",
},
}

expectedJSONs := []map[string]interface{}{
    {
        "Owner": "owner1",
        "ComponentsString": "compstring",
        "Expires": "2020-01-01T10:00:00Z",
        "DockerID": "",
        "Eusa": nil,
        "ID": "id1",
        "Start": nil,
        "Name": "name1",
        "Num": float64(1),
        "PricingComponents": []interface{}{
            map[string]interface{}{
                "name": "nodes",
                "value": float64(10),
            }
        },
        "ProductID": "productid1",
        "ProductRatePlan": "",
        "ProductRatePlanID": "",
        "State": "",
        "Summary": "License Name: name1
Quantity: 10 nodes
Expiration date: 2020-01-01",
    }
}
},
{
  "Owner": "owner2",
  "ComponentsString": "compstring",
  "Expires": "2020-01-01T10:00:00Z",
  "DockerID": "",
  "Eusa": nil,
  "ID": "id2",
  "Start": nil,
  "Name": "name2",
  "Num": float64(2),
  "PricingComponents": []interface{}{
    map[string]interface{}{
      "name": "nodes",
      "value": float64(20),
    },
  },
  "ProductID": "productid2",
  "ProductRatePlan": "",
  "ProductRatePlanID": "",
  "State": "",
  "Summary": "License Name: name2
  Quantity: 20 nodes
  Expiration date: 2020-01-01",
},
}
out := &bytes.Buffer{
err := SubscriptionsWrite(formatter.Context{Format: "{{json .}}", Output: out}, subscriptions)
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
  var m map[string]interface{}
  if err := json.Unmarshal([]byte(line), &m); err != nil {
t.Fatal(err)
  }
  assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}
}

func TestSubscriptionContextWriteJSONField(t *testing.T) {
  subscriptions := []licenseutils.LicenseDisplay{
    {Num: 1, Owner: "owner1"},
    {Num: 2, Owner: "owner2"},
  }
  out := &bytes.Buffer{
    if err != nil {
t.Fatal(err)
  }
}
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package model

import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed
// json blob.
type CheckResponse struct {
    Expiration  time.Time `json:"expiration"`
    Token       string    `json:"token"`
    MaxEngines  int       `json:"maxEngines"`
    ScanningEnabled bool    `json:"scanningEnabled"`
    Type        string    `json:"licenseType"`
    Tier        string    `json:"tier"`
}

// IssuedLicense represents an issued license
type IssuedLicense struct {
    KeyID       string `json:"key_id"`
    PrivateKey  string `json:"private_key"`
    Authorization string `json:"authorization"`
}

// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
    if l.KeyID == "" {
        return false, "empty key_id"
    }

    if l.PrivateKey == "" {
        return false, "empty private_key"
    }

    if l.Authorization == "" {
        return false, "empty authorization"
    }

    return true, ""
}

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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package licensing

import (  
"context"  
"crypto/hmac"  
"crypto/sha256"  
"encoding/base64"  
"encoding/json"  
"fmt"  
"time"

"github.com/docker/libtrust"  
"github.com/docker/licensing/lib/errors"  
"github.com/docker/licensing/lib/go-clientlib"  
"github.com/docker/licensing/model"
)

func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {  
url := c.baseURI
url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)

license := new(model.IssuedLicense)
if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
    return nil, err
}

return license, nil

// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
    keyID := license.KeyID
    privateKey := license.PrivateKey

    authorization, err := c.getAuthorization(ctx, license)
    if err != nil {
        return nil, err
    }

    // TODO: Mason - replace this parseJWS with a non libtrust lib
    signature, err := libtrust.ParseJWS(authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license parse JWS failed")
    }

    keys, err := signature.Verify()
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license signature verification failed")
    }

    keyCnt := len(keys)
    if keyCnt != 1 {
        err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
        return nil, errors.WithStack(err).With(errors.Fields{
            "key_id": keyID,
        })
    }

    key := keys[0]
    if !c.recognizedSigningKey(key) {
        return nil, errors.New("unrecognized signing key")
    }
}
payload, err := signature.Payload()
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "malformed signature payload")
}

checkRes := new(model.CheckResponse)

err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    })
}

return checkRes, nil

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if key.KeyID() == publicKey.KeyID() {
            return true
        }
    }
    return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": license.KeyID,
        }, "decoding license authorization failed")
    }
    return decoded, nil
}
// All of the functions in this file assume that they are receiving a properly
// formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
    tokenBytes, err := base64.URLEncoding.DecodeString(token)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

generatedToken, err := generateToken(message, privateKey)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

    if !hmac.Equal(tokenBytes, generatedBytes) {
        return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
    }

    return nil
}

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
    if err != nil {
        return "", errors.Wrap(err, errors.Fields{"msg": message})
    }

    h := hmac.New(sha256.New, key)
    h.Write([]byte(message))
    return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.410 gobject-introspection 1.56.1 1.el7

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Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
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that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
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you inform other peers where the object code and Corresponding
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It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Theodore Ts'o
23-June-2007

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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /*
 - Unix SMB/CIFS implementation.
+ trivial database library - standalone version

 - trivial database library - private includes
 -
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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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Additional -

---------------------------------------------
File: PSReadLine
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https://github.com/lzybkr/PSReadLine

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File: Hashables from ConvertFrom-json
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1.420 perl-file-temp 0.23.01 3.el7

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abstract: 'Build and install Perl modules'
author:
 - 'Ken Williams <kwilliams@cpan.org>'
 - "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.'
build_requires:
 File::Temp: 0.15
 Test::Harness: 3.16
 Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010
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<one line to give the program's name and a brief idea of what it does.>
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```
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This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (a program to direct compilers to make passes at assemblers) written by James Hacker.

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

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The End
#!perl
=head1 NAME
# DESCRIPTION

Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) { skip_all( "Not all files are available during cross-compilation" ); }

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else {
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*(\d{4,})/s
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
        or die "Copyright statement not found in perl -v output '$output'";

    $year;
}

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File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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

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

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(1)

ExceptionConverter:
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(2)

SimpleXMLParser:
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(3)

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In a mail sent to Bruno Lowagie on January 23, 2008, Brian Burkhalter (@sun.com) writes: "This code is under a BSD license and supersedes the older codec packages on which your code is based. It also includes numerous fixes among them being the ability to handle a lot of 'broken' TIFFs."

Note that numerous fixes were applied to the code used in iText by Paulo Soares, but apart from the fixes there were no essential changes between the code that was originally adapted and the code that is now available under the following license:

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FYI: Brian also added: "A bit of history might be in order. The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI. As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This framework supports these formats:

Java 1.4: GIF (read only), JPEG, PNG
Java 1.5: Added support for BMP and WBMP
Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE as well as some new things like JPEG2000."

(4) the file com/itextpdf/text/pdf/codec/TIFFConstants and some other TIFF related code is derived from LIBTIFF:

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NAME
   Sys::CPU - Perl extension for getting CPU information. Currently only number of CPU's supported.

SYNOPSIS
   use Sys::CPU;

   $number_of_cpus = Sys::CPU::cpu_count();
   printf("I have %d CPU's\n",$number_of_cpus);
   print "  Speed : ",Sys::CPU::cpu_clock(),"\n";
   print "  Type  : ",Sys::CPU::cpu_type(),"\n";

DESCRIPTION
   In response to a post on perlmonks.org, a module for counting the number of CPU's on a system. Support has now also been added for type of CPU and clock speed. While much of the code is from UNIX::Processors, win32 support has been added (but not tested).

EXPORT
   None by default.

AUTHOR
   MZSanford

MAINTENANCE
   Marc Koderer

SEE ALSO
   perl(1), sysconf(3)

CHANGES
   Revision history for Perl extension Sys::CPU.

   0.01 Wed Jun 27 16:43:58 2001
- original version; created by h2xs 1.20 with options -A -n Sys::CPU

0.10
- Added cpu_type and cpu_clock functions
- Changed to better win32 suppport (untested)

0.20
- Fixed linux support

0.25
- Fixed dist tar problem

0.30
- Fixed win32 supprot to work with Windows 2000 (thanks Gary)
- Changed interface to eliminate cpu numbers

0.35
- Fixed linux support (thanks Peter)

0.40
- Fixed HP-UX support (thanks Brett Gersekowski)

0.45
- Fixed Solaris support

0.50
- Fixed Darwin/Mac Os support (Marc Koderer)

0.51
- Fixed hidden mac os files

0.52
- Fixed bug 50933 and 25253
- Added license info (Fedora bug 585336)

0.53
- Fixed bug in s390 CPU detection (thanks Petr Pisar)

0.54
- Clean up some compiler warnings introduced in 0.53 (thanks Petr Pisar)
- Clean up other compiler warnings (thanks Petr Pisar)

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1019734909_1591379824.74/0/perl-Sys-CPU-0.54-4.el7.src.rpm-cosi-expand-archive-mC3P8JFB/Sys-CPU-0.54.tar.gz-cosi-expand-archive-y7gMoIR0/Sys-CPU-0.54/README
1.430 unixodbc 2.3.1 11.el7

1.430.1 Available under license:

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1.448 esapi 2.1.0.1

1.449 libwbclient 4.9.1-6.el7

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```
./.gitignore					X	2009
./dns/edns.py					PYTHON	2009,2011
./dns/entropy.py					PYTHON	2009,2011
./dns/hash.py					PYTHON	2011
```

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1.452 libusb 1.0.21-1.el7

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Additional -

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File: PSReadLine
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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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 Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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A. HISTORY OF THE SOFTWARE

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

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

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

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Additional -

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File: PSReadLine
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https://github.com/lzybkr/PSReadLine

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File: HashTables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/channel/epoll/EpollChannelConfig.java
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* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/handler/ssl/SessionTicketKey.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/handler/codec/dns/DnsTicketKey.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/handler/ssl/SessionTicketKey.java
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* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/channel/pool/FixedChannelPool.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/channel/pool/ChannelHealthChecker.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/channel/unix/NativeInetAddress.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/channel/pool/ChannelPoolHandler.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/buffer/PoolChunkMetric.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/buffer/PoolChunkListMetric.java
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 */
/*
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* http://creativecommons.org/licenses/publicdomain
*/
/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/

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* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
jar/io/netty/handler/codec/base64/Base64Dialect.java

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* under the License.
*/
/**
 * Set the {code TCP_MD5SIG} option on the socket. See {code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */
/**
 * Set the {code TCP_QUICKACK} option on the socket. See <a href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
 * for more details.
 */

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* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
  jar/io/netty/channel/epoll/EpollSocketChannelConfig.java
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  jar/io/netty/handler/codec/redis/ArrayRedisMessage.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
  jar/io/netty/handler/codec/redis/RedisArrayAggregator.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
  jar/io/netty/handler/codec/redis/RedisConstants.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
  jar/io/netty/handler/codec/redis/ArrayHeaderRedisMessage.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
  jar/io/netty/handler/codec/redis/RedisMessageType.java
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* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/util/internal/shaded/org/jctools/queues/SpscLinkedQueue.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpscUnboundedAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpmcAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpmcAtomicArrayQueue.java
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* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscGrowableAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscUnboundedXaddChunk.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/AtomicQueueFactory.java
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* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/util/internal/shaded/org/jctools/queues/MpscArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/util/internal/shaded/org/jctools/queues/spec/Preference.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/util/internal/shaded/org/jctools/queues/MpscBlockingConsumerArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingIdentityHashMap.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcUnboundedXaddChunk.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedXaddArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1- jar/io/netty/util/internal/shaded/org/jctools/queues/SpmcArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1- jar/io/netty/util/internal/shaded/org/jctools/maps/AbstractEntry.java

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  jar/io/netty/handler/codec/http2/Http2ConnectionPrefaceAndSettingsFrameWrittenEvent.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/channel/kqueue/KQueueRecvByteAllocatorHandle.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/resolver/RoundRobinInetAddressResolver.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/channel/kqueue/KQueue.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/codec/dns/AbstractDnsOptPseudoRrRecord.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/codec/smtp/SmtpUtils.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/ssl/PemValue.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/resolver/dns/InflightNameResolver.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/util/internal/UnstableApi.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/buffer/AdvancedLeakAwareCompositeByteBuf.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/codec/CodecOutputList.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/channel/kqueue/KQueueServerDomainSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/internal/tcnative/CertificateRequestedCallback.java
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* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/util/concurrent/PromiseCombiner.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/example/http2/helloworld/frame/server/Http2Server.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/util/concurrent/RejectedExecutionHandler.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/channel/kqueue/KQueueChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/util/concurrent/UnaryPromiseNotifier.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/channel/kqueue/AbstractKQueueChannel.java
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* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/util/internal/logging/Log4j2LoggerFactory.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/channel/kqueue/KQueueDatagramChannel.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/bootstrap/AbstractBootstrapConfig.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/channel/kqueue/KQueueDomainSocketChannel.java
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* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/resolver/dns/DnsCache.java
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* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/channel/kqueue/NativeLongArray.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/handler/codec/dns/DefaultDnsPtrRecord.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/util/internal/OutOfDirectMemoryError.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/channel/kqueue/KQueueDatagramChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/handler/ssl/PemPrivateKey.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/channel/kqueue/KQueueStaticallyReferencedJniMethods.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/channel/PreferHeapByteBufAllocator.java

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- /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/netty-all-4-1-50-final-sources-1.jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
- /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/codec/string/LineSeparator.java
- /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/ssl/Java8SslUtils.java
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- /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/flush/FlushConsolidationHandler.java
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jar/io/netty/handler/codec/compression/CompressionUtil.java

* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
jar/io/netty/channel/kqueue/KQueueEventLoop.java

* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
jar/io/netty/handler/code/http2/DefaultHttp2ResetFrame.java

* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
jar/io/netty/handler/code/http2/Http2FrameStream.java

* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
jar/io/netty/handler/code/smtp/SmtpResponse.java

* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
jar/io/netty/channel/kqueue/AcceptFilter.java

* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
jar/io/netty/handler/codec/smtp/SmtpResponse.java

* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
jar/io/netty/util/DomainNameMappingBuilder.java

* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
jar/io/netty/handler/codec/smtp/SmtpRequest.java

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jar/io/netty/handler/ssl/PemEncoded.java

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* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/example/stomp/websocket/StompWebSocketChatServer.java
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* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/util/concurrent/Future.java
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* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/internal/tcnative/SSL.java
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 */
/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its {@link ChannelPipeline}.
 *
 * <h3>Sub-types</h3>
 * <p>
 * {@link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 * <ul>
 * <li>{@link ChannelInboundHandler} to handle inbound I/O events, and</li>
 * <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
 * </ul>
 * </p>
 * <p>
 * Alternatively, the following adapter classes are provided for your convenience:
 * <ul>
 * <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
 * <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
 * <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
 * </ul>
 * </p>
 * <p>
 * For more information, please refer to the documentation of each subtype.
 * </p>
 *
 * <h3>The context object</h3>
 * <p>
 * A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext} object. A {@link ChannelHandler} is supposed to interact with the
 * {@link ChannelPipeline} it belongs to via a context object. Using the
 * context object, the {@link ChannelHandler} can pass events upstream or
 * downstream, modify the pipeline dynamically, or store the information
 * (using {@link AttributeKey}s) which is specific to the handler.
 */
State management

A `ChannelHandler` often needs to store some stateful information. The simplest and recommended approach is to use member variables:

```java
public interface Message {
    // your methods here
}

public class DataServerHandler extends SimpleChannelInboundHandler<Message> {

    private boolean loggedIn;

    @Override
    public void channelRead0(ChannelHandlerContext ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }
    ...
}
```

Because the handler instance has a state variable which is dedicated to one connection, you have to create a new handler instance for each new channel to avoid a race condition where an unauthenticated client can get the confidential information:

```java
// Create a new handler instance per channel.
// See `ChannelInitializer.initChannel(Channel)`.
public class DataServerInitializer extends ChannelInitializer<Channel> {
    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}
```

Using `AttributeKey`s
Although it's recommended to use member variables to store the state of a handler, for some reason you might not want to create many handler instances. In such a case, you can use `@link AttributeKey`ss which is provided by `@link ChannelHandlerContext`:

```java
public interface Message {
    // your methods here
}

@Sharable
public class DataServerHandler extends @link SimpleChannelInboundHandler&lt;Message&gt; {
    private final @link AttributeKey&lt;Boolean&gt; auth = @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth");

    @Override
    public void channelRead(@link ChannelHandlerContext ctx, Message message) {
        @link Attribute&lt;Boolean&gt; attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            attr.set(true);
        } else if (message instanceof GetDataMessage) {
            if (Boolean.TRUE.equals(attr.get())) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
            } else {
                fail();
            }
        }
    }
}
```

Now that the state of the handler is attached to the `@link ChannelHandlerContext`, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends @link ChannelInitializer&lt;Channel&gt; {
    private static final DataServerHandler SHARED = new DataServerHandler();

    @Override
    public void initChannel(@link Channel channel) {
        channel.pipeline().addLast("handler", SHARED);
    }
}
```

The `@Sharable` annotation
* In the example above which used an [@link AttributeKey],
* you might have noticed the [@code @Sharable] annotation.
*<p>
* If a [@link ChannelHandler] is annotated with the [@code @Sharable]
* annotation, it means you can create an instance of the handler just once and
* add it to one or more [@link ChannelPipeline]s multiple times without
* a race condition.
*<p>
* If this annotation is not specified, you have to create a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
*<p>
* This annotation is provided for documentation purpose, just like
*<p>
* Additional resources worth reading
*<p>
* Please refer to the [@link ChannelHandler], and
* [@link ChannelPipeline] to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
*/

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* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/channel/CoalescingBufferQueue.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/channel/CoalescingBufferQueue.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/channel/CoalescingBufferQueue.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/channel/CoalescingBufferQueue.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/channel/CoalescingBufferQueue.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/channel/CoalescingBufferQueue.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/channel/CoalescingBufferQueue.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/channel/CoalescingBufferQueue.java

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* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/ssl/CipherSuiteFilter.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/channel/unix/package-info.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/codec/xml/XmlSpace.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/codec/spdy/SpdyFrameCodec.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/ssl/JdkSslEngine.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/codec/spdy/SpdyHeaderBlockZlibDecoder.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/ssl/JdkSslEngine.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/codec/mqtt/MqttIdentifierRejectedException.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/ssl/SslProvider.java
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- /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/channel/epoll/EpollEventLoopGroup.java
- /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java
- /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/example/memcache/binary/MemcacheClientHandler.java
- /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/codec/xml/XmlElementStart.java
- /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java
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* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/codec/spdy/SpdyFrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/codec/xml/XmlDTD.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/codec/spdy/SpdyFrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/codec/xml/XmlCharacters.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/codec/xml/XmlElementEnd.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/channel/ChannelFactory.java
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* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/netty-all-4-1-50-final-sources-1.jar/io/netty/example/spdy/server/package-info.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/netty-all-4-1-50-final-sources-1.jar/io/netty/resolver/dns/DnsAddressResolverGroup.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/ssl/Java7SslParametersUtils.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/proxy/ProxyHandler.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java

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9341
jar/io/netty/handler/codec/compression/FastLz.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
jar/io/netty/handler/codec/socksx/v4/Socks4Message.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
jar/io/netty/channel/epoll/Epoll.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
jar/io/netty/channel/epoll/EpollSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
jar/io/netty/util/AsciiString.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
jar/io/netty/handler/codec/mqtt/MqttUnacceptableProtocolVersionException.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
jar/io/netty/handler/codec/socksx/package-info.java

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 */
/**
 * Set the { @code TCP_MD5SIG} option on the socket. See { @code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java

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/*
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 */
* A decoder that splits the received {@link ByteBuf}s dynamically by the
* value of the length field in the message. It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
* <p>
* {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
* *
* * <h3>2 bytes length field at offset 0, do not strip header</h3>
* *
* The value of the length field in this example is <tt>12 (0x0C)</tt> which
* represents the length of "HELLO, WORLD". By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field. Therefore, it can be decoded with the simplistic parameter
* combination.
* *
* * BEFORE DECODE (14 bytes)       AFTER DECODE (14 bytes)
* +---------------------------+-------------------+
* | Length | Actual Content | Length | Actual Content |
* +---------------------------+-------------------+
* | 0x000C | "HELLO, WORLD" | 0x000C | "HELLO, WORLD" |
* +---------------------------+-------------------+
* </pre>
* *
* * <h3>2 bytes length field at offset 0, strip header</h3>
* *
* Because we can get the length of the content by calling
* {@link ByteBuf#readableBytes()}, you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>. In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = 0
initialBytesToStrip = 0
InitialBytesToStrip = 2 (= the length of the Length field)

BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
+--------+----------------+      +----------------+
| Length | Actual Content |----->| Actual Content |
| 0x000C | "HELLO, WORLD" |
+--------+----------------+

<pre>
<h3>2 bytes length field at offset 0, do not strip header, the length field represents the length of the whole message</h3>

In most cases, the length field represents the length of the message body only, as shown in the previous examples. However, in some protocols, the length field represents the length of the whole message, including the message header. In such a case, we specify a non-zero lengthAdjustment. Because the length value in this example message is always greater than the body length by 2, we specify -2 for compensation.

lengthFieldOffset   = 2 (= the length of Header 1)
lengthFieldLength   = 3
lengthAdjustment    = 0
initialBytesToStrip = 0

BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Length | Actual Content |
| 0x000E | "HELLO, WORLD" |
+--------+----------------+

The following message is a simple variation of the first example. An extra header value is prepended to the message. Again because the decoder always takes the length of the prepended data into account during frame length calculation.

lengthFieldOffset   = 2 (= the length of Header 1)
lengthFieldLength   = 3
lengthAdjustment    = 0
initialBytesToStrip = 0
* BEFORE DECODE (17 bytes)                        AFTER DECODE (17 bytes)
* +-------------------------------------------+ +-------------------------------------------+
* | Header 1 | Length | Actual Content | ->| Header 1 | Length | Actual Content |
* | 0xCAFE  | 0x00000C | "HELLO, WORLD" | ->| 0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +-------------------------------------------+ +-------------------------------------------+
* </pre>

* BEFORE DECODE (17 bytes)                        AFTER DECODE (17 bytes)
* +-------------------------------------------+ +-------------------------------------------+
* | Length | Header 1 | Actual Content | ->| Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" | ->| 0x00000C | 0xCAFE | "HELLO, WORLD" |
* +-------------------------------------------+ +-------------------------------------------+

* ch3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>

* This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive <tt>lengthAdjustment</tt> so that the decoder counts the extra header into the frame length calculation.

* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* <b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0

* BEFORE DECODE (17 bytes)                        AFTER DECODE (17 bytes)
* +-------------------------------------------+ +-------------------------------------------+
* |  Length | Header 1 | Actual Content | ->|  Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" | ->| 0xCAFE | "HELLO, WORLD" |
* +-------------------------------------------+ +-------------------------------------------+

* ch3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>

* This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the <tt>lengthFieldOffset</tt> and the extra header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero <tt>initialBytesToStrip</tt> to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.

* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)

* BEFORE DECODE (16 bytes)                        AFTER DECODE (13 bytes)
* +-------------------------------------------+ +-------------------------------------------+
* | HDR1 | Length | HDR2 | Actual Content | ->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" | ->| 0xFE | "HELLO, WORLD" |
* +-------------------------------------------+ +-------------------------------------------+

* </pre>
2 bytes length field at offset 1 in the middle of 4 bytes header, strip the first header field and the length field, the length field represents the length of the whole message.

Let's give another twist to the previous example. The only difference from the previous example is that the length field represents the length of the whole message instead of the message body, just like the third example. We have to count the length of HDR1 and Length into lengthAdjustment. Please note that we don't need to take the length of HDR2 into account because the length field already includes the whole header length.

```
lengthFieldOffset = 1
lengthFieldLength = 2
lengthAdjustment = -3 (= the length of HDR1 + LEN, negative)
initialBytesToStrip = 3

BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
+------+--------+------+----------------+      +------+----------------+
| HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
| 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
+------+--------+------+----------------+
```

@see LengthFieldPrepender
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/channel/local/LocalChannel.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/timeout/TimeoutException.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/codec/package-info.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/codec/base64/BufferDecoder.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/buffer/PoolSubpage.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/channel/FixedRecvByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/example/udt/echo/redundantBytes/ByteEchoPeerHandler.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/util/HashedWheelTimer.java
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* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/channel/socket/nio/NioDatagramChannel.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/example/telnet/TelnetServerHandler.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/example/http/file/HttpStaticFileServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/util/internal/logging/Slf4JLoggerFactory.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/example/socksproxy/SocksServerHandler.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/handler/codec/LengthFieldPrepender.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/example/proxy/HexDumpProxy.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/channel/udt/UdtMessage.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/example/udt/echo/bytes/ByteEchoClientHandler.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/channel/group/ChannelGroupFutureListener.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/util/internal/logging/InternalLogLevel.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/example/udt/echo/bytes/package-info.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/handler/codec/ByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
jar/io/netty/example/sctp/ScptEchoClient.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
jar/io/netty/example/proxy/HexDumpProxyBackendHandler.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
jar/io/netty/handler/stream/ChunkedNioFile.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
jar/io/netty/example/http/websocketx/server/WebSocketIndexPageHandler.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
jar/io/netty/handler/codec/http/package-info.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
jar/io/netty/channel/group/CombinedIterator.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
jar/io/netty/handler/codec/spdy/SpdyHttpEncoder.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
jar/io/netty/channel/sctp/oio/OioSctpServerChannel.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
jar/io/netty/channel/ChannelInitializer.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
jar/io/netty/handler/codec/socksx/v5/Socks5CommandResponse.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
jar/io/netty/example/http/socket/WebSocketIndexPageHandler.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
jar/io/netty/handler/codec/CorruptedFrameException.java

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* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/example/objectecho/ObjectEchoServer.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/codec/http/HttpHeaderDateFormat.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/codec/serialization/ClassResolvers.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/channel/oio/AbstractOioByteChannel.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/channel/DefaultChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/example/udt/package-info.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/channel/ChannelFuture.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/codec/socks/SocksInitResponseDecoder.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/example/http/snoop/HttpSnoopServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/util/package-info.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/channel/ChannelOutboundHandlerAdapter.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/timeout/IdleStateHandler.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/codec/spdy/SpdySession.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/codec/http/HeaderDecoder.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/channel/sctp/oio/OioSctpChannel.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/example/worldclock/WorldClockServer.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/example/qotm/QuoteOfTheMomentServerHandler.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/handler/codec/serialization/CachingClassResolver.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/handler/logging/LoggingHandler.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/channel/socket/ChannelInputShutdownEvent.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/handler/codec/MessageToByteEncoder.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/channel/DefaultEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/channel/socket/ChannelInputShutdownEvent.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-jar/io/netty/handler/codec/MessageToByteEncoder.java
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- /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/util/CharsetName.java
- /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/channel/socket/oio/OioDatagramChannel.java
- /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/codec/MessageAggregator.java
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* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/channel/AbstractServerChannel.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/example/uptime/UptimeClient.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/codec/DecoderException.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/example/securechat/SecureChatClientInitializer.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/buffer/ByteBuf.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/stream/ChunkedStream.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/codec/string/StringDecoder.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/channel/ChannelHandlerContext.java
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* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1.jar/io/netty/handler/codec/http2/HpackDynamicTable.java

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// https://tools.ietf.org/html/rfc7540#section-8.1.2.2 makes a special exception for TE

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jar/io/netty/channel/sctp/nio/NioSctpChannel.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
jar/io/netty/channel/sctp/nio/NioSctpServerChannel.java
* /opt/ws_local/PERMITS_SQL/1080177636_1597827969.39/0/netty-all-4-1-50-final-sources-1-
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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table of data to be supplied by an application program that uses
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is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application.
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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1.474 zlib 1.2.11

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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*/

1.475 shim shim-x64-15-1.el7

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The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

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clarify this fact.

* configure.ac, Makefile.am: The original versions were derived from the
  ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cfff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
  These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
  admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
  except the first one, were first implemented in the Buildtool project.
  They were later adapted to be part of Boost.Process and, during that
  process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

===========================================================================
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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1.478 cxf-rt-transports-http 3.3.6

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0       leshort         0x0436          psf screen font data
>2      byte            0               256 characters, no index
>2      byte            1               512 characters, no index
>2      byte32         0x2555           256 characters, Unicode index
>2      byte32         0x2556           512 characters, Unicode index
>2      byte32         0x2557           256 characters, Unicode level 2 index
>2      byte32         0x2558           512 characters, Unicode level 2 index
>3      byte32         0x2559           8x%d

# PC Screen (console) Fonts - psf2 header
#
0       lelong		0x864ab572	psf2 screen font data
>12    lelong&1	1              with Unicode index
>16    lelong&1	bx              %d glyphs
>20    lelong&1	bx              %dx
>24    lelong&1	bx              %d

1.481 select2 4.0.13

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1.484 xmlsec 1.2.20-7.el7_4

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* Cordys R&D BV
1.485 slf4j-log4j 1.7.25

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1.486 xz 5.2.2 1.el7

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Version 2.1, February 1999

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1.487 cracklib-dicts 2.9.0 11.el7
1.487.1 Available under license :

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)
----------

Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike
Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

-- Nathan
=20

------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not GPL-2 ... it was a modified artistic license ... i didnt notice the license change until it was mentioned in the latest notes.
unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which IMO is just wrong. It isn't the place of a library to dictate to application writers what license they should be using.

Thus LGPL-2.1 enters to fill this void.

=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

----------------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li... [mailto:cracklib-devel-bounces@li...]
> On Behalf Of Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
> =20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec directly
> > and see if he wants to relicense his code as LGPL... but at this point,
> > it was enough to just get it consistent and documented as to what it was
> > released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.
> > the original license (before moving to sourceforge -- aka, 2.7) was not
> > GPL-2 ... it was a modified artistic license ... I didn't notice the license
Open Source Used In Identity Services Engine 3.0  9593

> change until it was mentioned in the latest notes.
> >=20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isn't the
> place of a
> library to dictate to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL....

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
> 
> I am sympathetic. Guys, what do you reckon?
> 
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> > 
> > I am sympathetic. Guys, what do you reckon?
> > 
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...
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In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

-mike

---

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

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>
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>
> yes. go for it. thanks++

-a

---

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?
> >
> > yes. go for it. thanks++

Nathan Neuling is the only one who can actually make said change ...

-mike

---

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL FROM ARTISTIC.
CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
  by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
  by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTPT id l91Gxtpt020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
  by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTPT id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
  Received: from [82.68.43.14] (helo=[192.168.1.3])
  by rutherford.zen.co.uk with esmtp (Exim 4.50)
  id 11cOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
  <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
  <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=fowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBEF8EBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100

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

Open Source Used In Identity Services Engine 3.0 9596
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585

>
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
> >
> > Any chance you could write me a self-contained email stating clearly
> > that the license is being changed to GPL, so I could include that
> > email
> > in the repository and clean up the repository/tarballs? I have all the
> > original discussion, but something succinct and self contained
> > would be
> > ideal.
>
> The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a
This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version
2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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published by the Free Software Foundation; either version 2.1 of the
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WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

A copy of the GNU Lesser General Public License 2.1 is available as
/usr/share/common-licenses/LGPL-2.1 in the Debian GNU/Linux
distribution or on the World Wide Web at
http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html. You can also
obtain it by writing to the Free Software Foundation, Inc., 51
Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

CrackLib was originally licensed with a variant of the Artistic
license. In the interests of wider acceptance and more modern
licensing, it was switched with the original author's blessing to GPL
v2.

This approval was carried out in email discussions in 2005, and has
been reconfirmed as of 2007-10-01 with the following email from Alec
Muffett. Cracklib's license was changed from the GPL to the LGPL after
consensus of all previous developers in October 2008, effective with
release 2.8.15 released on 2009-11-19. See the email discussion below
for both license changes.

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

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike
Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

-- Nathan

=20

------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
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> it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20 GPL-2 ... it was a modified artistic license ... i didnt notice the license=20 change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th= 
applications are also GPL-2 which imo is just wrong. it isn't the place of a library to dictate to application writes what license they should be using. thus LGPL-2.1 enters to fill this void.

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

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> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
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> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
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I'd also suggest the LGPL, for the reason you noted above. Alternately,
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GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
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-mike

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yes. go for it. thanks++

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Attachments: Message as HTML
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The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

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entire combination fits its criteria of freedom. The Lesser General
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the library.

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

For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it
becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
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Although the Lesser General Public License is Less protective of the
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be combined with the library in order to run.
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a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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  Many improvements to the libsensors configuration file scanner.
* Jean Delvare  
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
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Additional -

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File: PSReadLine
__________________________________________

https://github.com/lzybkr/PSReadLine

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File: Hashables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PackageManagement

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1.496 cracklib 2.9.0-11.el7
1.496.1 Available under license:

--------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
--------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16
Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=r
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan
=20
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM

Open Source Used In Identity Services Engine 3.0 9757
To: cracklib-devel@li...
Subject: [Cracklib-devel] cracklib license

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not GPL-2 ... it was a modified artistic license ... i didn't notice the license change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which imo is just wrong. it isn't the place of library to dictact to application writes what license they should be using.
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?
What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.
In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysingr <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL....
> >
> > My apologies for not chiming in in anything resembling a reasonable
> > timeframe.
> >
> > I'd also suggest the LGPL, for the reason you noted above. Alternately,
> > GPLv2 with the option of using the library under a later version of the
> > GPL would permit applications which were released under version 3 of the
> > GPL to use the library, too, which would be sufficient for the packages
> > which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> >
> > In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now?

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now?
yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >>
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
> >
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

-------------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
-------------

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

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From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
 Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

Open Source Used In Identity Services Engine 3.0  9763
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a
This package was debianized by Jean Pierre LeJacq <jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt <martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner <jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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distribution or on the World Wide Web at
http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html. You can also
obtain it by writing to the Free Software Foundation, Inc., 51
Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

CrackLib was originally licensed with a variant of the Artistic
license. In the interests of wider acceptance and more modern
licensing, it was switched with the original author's blessing to GPL
v2.

This approval was carried out in email discussions in 2005, and has
been reconfirmed as of 2007-10-01 with the following email from Alec
Muffett. Cracklib's license was changed from the GPL to the LGPL after
consensus of all previous developers in October 2008, effective with
release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

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Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists =20

mike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
Subject: [Cracklib-devel] cracklib license

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

-mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not GPL-2 ... it was a modified artistic license ... i didnt notice the license change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which imo is just wrong. it isn't the place of a library to dictact to application writes what license they should be using. thus LGPL-2.1 enters to fill this void.

=mike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216
> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> > directly
> > and see if he wants to relicense his code as LGPL... but at this
> > point,
> > > it was enough to just get it consistent and documented as to what
> > > it was
> > > released under. This wasn't actually a license change, just a
> > > clarification of the licensing that was already in place.
> >=20
> > the original license (before moving to sourceforge -- aka, 2.7) was
> > not
> > GPL-2 ... it was a modified artistic license ... i didnt notice the
> > license
> > change until it was mentioned in the latest notes.
> >=20
> > unlike the old license, GPL-2 prevents people from using cracklib
> > unless their
> > applications are also GPL-2 which imo is just wrong. it isnt the
> > place of a
> > library to dictact to application writes what license they should
> > be using.
> > thus LGPL-2.1 enters to fill this void.
> > -mike
>
> Re: [Cracklib-devel] cracklib license
> From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
>
> I am sympathetic. Guys, what do you reckon?
What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL....

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.
Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> > >
> > I am sympathetic. Guys, what do you reckon?
> >
> > > What I am hearing so far is that LGPL makes sense, since it can be
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> >
> > My apologies for not chiming in in anything resembling a reasonable
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> > GPLv2 with the option of using the library under a later version of the
> > GPL would permit applications which were released under version 3 of the
> > GPL to use the library, too, which would be sufficient for the packages
> > which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> >
> > In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?
yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
> >
> > yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

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BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
-----------

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.

----------------------------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959); Mon, 1 Oct 2007 12:26:03 -0500
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SMTPSVC(6.0.3790.3959); Mon, 1 Oct 2007 12:26:02 -0500
Any chance you could write me a self-contained email stating clearly
that the license is being changed to GPL, so I could include that
email
in the repository and clean up the repository/tarballs? I have all the
original discussion, but something succinct and self contained
would be
ideal.
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

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free software--to make sure the software is free for all its users.

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you have the freedom to distribute copies of free software (and charge
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it in new free programs; and that you are informed that you can do
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you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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

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

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For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

Although the Lesser General Public License is Less protective of the
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linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

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(which use some of those functions and data) to form executables.

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a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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medium customarily used for software interchange.

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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

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

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

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

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Additional -
File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PackageManagement
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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Gocheck - A rich testing framework for Go

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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Additional -

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File: PSReadLine
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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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DOM Level 3 Core Specification v1.0

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```
The Java Cryptographic Service SunEC Provider uses the Mozilla ECC library. If this native library is removed, the following algorithms will no longer be available from the SunEC provider using the JCA/JCE APIs:

    KeyPairGenerator:  EC  
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Additional -

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File: PSReadLine
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https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PowerShell 6.0

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1.517 perl-parent 0.225 244.el7

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1.518 cxf-rt-frontend-jaxrs 3.3.5

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procf provides functions to retrieve system, kernel and process
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`#---------------------BS_STVARS_040_01----------------------#
SELECT COUNT(@GLOBAL.license);
COUNT(@GLOBAL.license)
1
1 Expected

'#---------------------BS_STVARS_040_02----------------------#
SET @@GLOBAL.license=1;
ERROR HY000: Variable 'license' is a read only variable
Expected error 'Read only variable'
SELECT COUNT(@GLOBAL.license);
COUNT(@GLOBAL.license)
1
1 Expected

'#---------------------BS_STVARS_040_03----------------------#
SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
@@GLOBAL.license = VARIABLE_VALUE
1
1 Expected
SELECT COUNT(@GLOBAL.license);
COUNT(@GLOBAL.license)
1
1 Expected
SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
COUNT(VARIABLE_VALUE)
1
1 Expected

'#---------------------BS_STVARS_040_04----------------------#
SELECT @@license = @@GLOBAL.license;
@@license = @@GLOBAL.license
1
1 Expected
SELECT COUNT(@@license);
COUNT(@@license)
1

'#---------------------BS_STVARS_040_05----------------------#
SELECT COUNT(@@local.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@SESSION.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
SELECT license = @@SESSION.license;
ERROR 42S22: Unknown column 'license' in 'field list'
Expected error 'Readonly variable'

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#########################################################################
### mysql-test\license_basic.test #-------------------------------------#
### # Variable Name: license                                         #
### # Scope: Global                                                  #
### # Access Type: Static                                           #
### # Data Type: string                                             #
### # Creation Date: 2008-02-07                                      #
### # Author : Sharique Abdullah                                    #
### # Description:Test Cases of Dynamic System Variable license      #
### # that checks the behavior of this variable in the following ways #
### #   * Value Check                                                #
### #   * Scope Check                                                #
### # Reference: http://dev.mysql.com/doc/refman/5.1/en/             #
### # server-system-variables.html                                   #
### #----------------------------------------------------------------------
--echo '#---------------------BS_STVARS_040_01----------------------#'
########################################################################
# Displaying default value                                         #
#----------------------------------------------------------------------
SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected
--echo '/umd---------------------BS_STVARS_040_02----------------------#'
# Check if Value can set
#******************************************************************************

--error ER_INCORRECT_GLOBAL_LOCAL_VAR
SET @@GLOBAL.license=1;
--echo Expected error 'Read only variable'

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--echo '/umd---------------------BS_STVARS_040_03----------------------#'
# Check if the value in GLOBAL Table matches value in variable
#******************************************************************************

SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

--echo '/umd---------------------BS_STVARS_040_04----------------------#'
#  Check if accessing variable with and without GLOBAL point to same variable
#******************************************************************************

SELECT @@license = @@GLOBAL.license;
--echo 1 Expected

--echo '/umd---------------------BS_STVARS_040_05----------------------#'
# Check if license can be accessed with and without @@ sign
#******************************************************************************

SELECT @@license = @@GLOBAL.license;
--echo 1 Expected


SELECT COUNT(@@license);
--echo 1 Expected

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@local.license);
--echo Expected error 'Variable is a GLOBAL variable'

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@SESSION.license);
--echo Expected error 'Variable is a GLOBAL variable'

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--Error ER_BAD_FIELD_ERROR
SELECT license = @@SESSION.license;
--echo Expected error 'Readonly variable'

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# Variable Name: license
# Scope: Global
# Access Type: Static
# Data Type: string
# Creation Date: 2008-02-07
# Author : Sharique Abdullah
# Description:Test Cases of Dynamic System Variable license
# that checks the behavior of this variable in the following ways
# * Value Check
# * Scope Check

--echo '#---------------------BS_STVARS_040_01----------------------#'
### Displaying default value

```
SELECT COUNT(@@GLOBAL.license);
```

--echo 1 Expected

```
--echo '#---------------------BS_STVARS_040_02----------------------#'
```

### Check if Value can set

```
--error ER_INCORRECT_GLOBAL_LOCAL_VAR
SET @GLOBAL.license=1;
--echo Expected error 'Read only variable'
```

```
SELECT COUNT(@@GLOBAL.license);
```

--echo 1 Expected

```
--echo '#---------------------BS_STVARS_040_03----------------------#'
```

### Check if the value in GLOBAL Table matches value in variable

```
SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
```

--echo 1 Expected

```
SELECT COUNT(@@GLOBAL.license);
```

--echo 1 Expected

```
SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
```

--echo 1 Expected

```
--echo '#---------------------BS_STVARS_040_04----------------------#'
```

### Check if accessing variable with and without GLOBAL point to same variable

```
SELECT @@license = @@GLOBAL.license;
```

--echo 1 Expected
SELECT COUNT(@@license);
--echo 1 Expected

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@local.license);
--echo Expected error 'Variable is a GLOBAL variable'

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@SESSION.license);
--echo Expected error 'Variable is a GLOBAL variable'

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--Error ER_BAD_FIELD_ERROR
SELECT license = @@SESSION.license;
--echo Expected error 'Readonly variable'

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'---------------------BS_STVARS_040_01---------------------'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected

'---------------------BS_STVARS_040_02---------------------'
SET @@GLOBAL.license=1;
ERROR HY000: Variable 'license' is a read only variable
Expected error 'Read only variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected

'---------------------BS_STVARS_040_03---------------------'
SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
@@GLOBAL.license = VARIABLE_VALUE
1
1 Expected
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected

'---------------------BS_STVARS_040_04---------------------'
SELECT @@license = @@GLOBAL.license;
@@license = @@GLOBAL.license
1
1 Expected

'---------------------BS_STVARS_040_05---------------------'
SELECT COUNT(@@license);
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== MariaDB ==
The Debian package of MySQL was first debianzed on 1997-04-12 by Christian Schwarz <schwarz@debian.org> and is maintained since 1999-04-20 by Christian Hammers <ch@debian.org>.

The MariaDB packages were initially made by http://ourdelta.org/, and are now managed by the MariaDB development team, maria-developers@lists.launchpad.net

MariaDB can be downloaded from http://downloads.askmonty.org/mariadb/

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== MariaDB ==

The Debian package of MySQL was first debianzed on 1997-04-12 by Christian
Schwarz <schwarz@debian.org> and is maintained since 1999-04-20 by
Christian Hammers <ch@debian.org>.

The MariaDB packages were initially made by http://ourdelta.org/, and
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Mon Aug 17 10:11:49 PDT 2020 Martin Fujitani <martinf@cisco.com>

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

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

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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modification follow. Pay close attention to the difference between a “work based on the library” and a “work that uses the library”. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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

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

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

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

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derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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will operate properly with a modified version of the library, if
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interface-compatible with the version that the work was made with.

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which the executable runs, unless that component itself accompanies
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It may happen that this requirement contradicts the license
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programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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 Network Working Group  H. Krawczyk
 Request for Comments: 2104  IBM
 Category: Informational  M. Bellare
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    February 1997

    HMAC: Keyed-Hashing for Message Authentication

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Appendix -- Sample Code

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

Parts of nss.c are derived from the Mozilla NSS 3.9.2 source,
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ci.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c2f2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and piostream classes and tests found in the Boost.Process library.
Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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

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1.550 netty-handler 4.1.50.Final

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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1.jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1.jar/io/netty/handler/ssl/OpenSslSession.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1.jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1.jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1.jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1.jar/io/netty/handler/ssl/OpenSslTLsv13X509ExtendedTrustManager.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1.jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1.jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1.jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1.jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1.jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1.jar/io/netty/handler/ssl/ExtendedOpenSslSession.java

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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/traffic/package-info.java

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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/PemReader.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ipfilter/IpFilterRule.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java
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jar/io/netty/handler/ssl/JdkSslContext.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java
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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ApplicationProtocolUtil.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
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jar/io/netty/handler/ssl/CipherSuiteConverter.java
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jar/io/netty/handler/ssl/JdkSslClientContext.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
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jar/io/netty/handler/ssl/OpenSslServerSessionContext.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1.jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1.jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/timeout/ReadTimeoutHandler.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/logging/LoggingHandler.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/stream/package-info.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/stream/ChunkedResult.java
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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/package-info.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/package-info.java
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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source
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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File: HashTables from ConvertFrom-json
----------------------------------------------

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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ar/jar/org/springframework/core/codec/ByteBufferEncoder.java
* /opt/ws_local/PERMITS_SQL/1074667274_1595917050.4/0/spring-core-5-1-3-release-sources-1-
ar/jar/org/springframework/lang/UsesJava7.java

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jar/org/springframework/core/codec/ByteBufferDecoder.java
* /opt/ws_local/PERMITS_SQL/1074667274_1595917050.40/spring-core-5-1-3-release-sources-1.jar/org/springframework/core/io/DescriptiveResource.java
* /opt/ws_local/PERMITS_SQL/1074667274_1595917050.40/spring-core-5-1-3-release-sources-1.jar/org/springframework/core/convert/support/ByteBufferConverter.java
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* /opt/ws_local/PERMITS_SQL/1074667274_1595917050.40/spring-core-5-1-3-release-sources-1.jar/org/springframework/core/env/ReadOnlySystemAttributesMap.java

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* /opt/ws_local/PERMITS_SQL/1074667274_1595917050.4/0/spring-core-5-1-3-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1074667274_1595917050.4/0/spring-core-5-1-3-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1074667274_1595917050.4/0/spring-core-5-1-3-release-sources-1-
  jar/org/springframework/util/backoff/BackOff.java
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::ELC
;;; Compiled by gm@skiddaw on Fri Mar  8 00:17:33 2013
;;; from file /misc/emacs/bzr/emacs24-merge/lisp/emacs-lisp/copyright.el
;;; in Emacs version 24.3.1
;;; with all optimizations.
;;; This file contains utf-8 non-ASCII characters,
;;; and so cannot be loaded into Emacs 22 or earlier.
(and (boundp 'emacs-version)
  (< (aref emacs-version (1- (length emacs-version))) ?A)
  (string-lessp emacs-version "23")
  (error """%s' was compiled for Emacs 23 or later" #$))
#@175 Possibly adjust the search performed by `copyright-find-copyright'.
If the years continue onto multiple lines that are marked as comments,
skips to the end of all the years.
(defalias 'copyright-find-end #[nil "\212g\305=\2053\306u\210\307\310w\210l\2053\2053\311
\312\216\306y\210\313!\205'\314\225b*\2053\n\315\313!*)\205H\306y\210\316!\210\316\317\320\n\"!\210\202\20
7" [comment-start-skip save-match-data-internal copyright-years-regexp regexp inhibit-changing-match-data 44 1 "
" nil match-data ((byte-code "\301\302\"\207" [save-match-data-internal set-match-data evaporate] 3)) looking-at 0 t
re-search-forward format "\\(%s\\)"] 4 (#$ . 4487)])
(defalias 'copyright-update-year #[(replace noquery) "\305\225b\210\306
\210\307\310!\311\225\312Z\311\225{\313\314O\230?\205\247\204>\315
\316\216\317p!\210\212\320\2035\321\322Q\2029\323\324Q!+\205\247\203J\325\326\211\314\311%\207\212\327\
314x)\330!\330`\f\\`{!Z\331\246\305=\203\332`\f\333#f\334=\204x\332`\f\313#f\334=\203\335\f!\210\202\241\212\
336\337\340 \326#\203\217\341\305!\202\220\342)c\210\332`\f\343#f\344=\203\241\344c\210\f\314Oc)\207"
[copyright-current-year noquery #1=#:wconfig replace size 1 copyright-find-end format-time-string "%Y" 3 2 -2 nil
current-window-configuration ((set-window-configuration #1#)) switch-to-buffer y-or-n-p "Replace copyright
year(s) by " "? " "Add " " to copyright? " replace-match t "0-9" string-to-number 100 + -1 45 delete-char re-searchbackward "[0-9]\\( *, *\\)[0-9]" line-beginning-position match-string ", " -3 39] 6])
#@369 Update copyright notice to indicate the current year.
With prefix ARG, replace the years in the notice rather than adding
the current year after them. If necessary, and
`copyright-current-gpl-version' is set, any copying permissions
following the copyright are updated as well.
If non-nil, INTERACTIVEP tells the function to behave as when it's called
interactively.
(defalias 'copyright-update #[(&optional arg interactivep) "\204\205\207\n?\206\n\306=\205\212\214\307
\203~\310\f\"\210\311 b\210
\203~\312\313\205@\203<`Z\202@`\\\314#\203~\315\316\317!!\315
!W\203~\204v\320 \321\216\317\225b\210\322 \323\216\324p!\210\325\326\327\330\317!
#!,\203~\331
\314\211\332\317%\210)\333\300!\210\332*\332\207" [copyright-update interactivep copyright-query noquery arg
copyright-current-gpl-version function copyright-find-copyright copyright-update-year copyright-start-point
copyright-re-search "the Free Software Foundation[,;\n].*either version \\([0-9]+\\)\\(?: of the License\\)?, or[
\n].*any later version" t string-to-number match-string 1 match-data ((byte-code "\301\302\"\207" [save-match-datainternal set-match-data evaporate] 3)) current-window-configuration ((set-window-configuration #1=#:wconfig))
switch-to-buffer y-or-n-p format "Replace GPL version %s with version %s? " match-string-no-properties replacematch nil make-local-variable copyright-limit copyright-at-end-flag save-match-data-internal #1#] 6 (#$ . 6067)
"*P\nd"])
#@208 Convert 2 digit years to 4 digit years.
Uses heuristic: year >= 50 means 19xx, < 50 means 20xx.
If `copyright-year-ranges' (which see) is non-nil, also
independently replaces consecutive years with a range.
(defalias 'copyright-fix-years #[nil "\306 \203 \307\224\310
\311\224\312\211\211\211\211\211\211\211\"#$%&\313\225b\210\314
\210\315\307\225T!#&b\210\316\317#\320#\203\331%`\312\223\210\311\224b\210\321\322\311!!`Sf\211\203f
z\323U\204f
\324U\204f\325c\210\f\326W\203\207\f\327Y\203v\330\202w\331c\210\f\211\327Y\203\204\332\202\205\333\\%b
\210'\203\320
\324=\203\235\312\211\202\320\203\255\fTU\203\255`\202\320\n\203\314\203\314\nV\203\314b\210

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This is a skeleton command (see `skeleton-insert').
Normally the skeleton text is inserted at point, with nothing "inside". If there is a highlighted region, the skeleton text is wrapped around the region text.

A prefix argument ARG says to wrap the skeleton around the next ARG words.
A prefix argument of -1 says to wrap around region, even if not highlighted.
A prefix argument of zero says to wrap around zero words---that is, nothing.
This is a way of overriding the use of a highlighted region.

(put 'copyright 'no-self-insert t)
#558 Insert a copyright by $ORGANIZATION notice at cursor.

#122 Update copyright notice for all files in DIRECTORY matching MATCH.
If FIX is non-nil, run `copyright-fix-years' instead.

(provide 'copyright)
;; copyright.el --- update the copyright notice in current buffer

;; Copyright (C) 1991-1995, 1998, 2001-2013 Free Software Foundation,
;; Inc.

;; Author: Daniel Pfeiffer <occitan@esperanto.org>
;; Keywords: maint, tools

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;; Commentary:

;; Allows updating the copyright year and above mentioned GPL version manually
;; or when saving a file.
;; Do (add-hook 'before-save-hook 'copyright-update), or use
;; M-x customize-variable RET before-save-hook RET.

;; Code:

(defun copyright ()
  "Update the copyright notice in current buffer."
  :group 'tools)

(defun copyright-limit ()
  "Don't try to update copyright beyond this position unless interactive.
A value of nil means to search whole buffer."
  :group 'copyright
  :type '(choice (integer :tag "Limit")
             (const :tag "No limit")))

(defun copyright-at-end-flag ()
  "Non-nil means to search backwards from the end of the buffer for copyright.
This is useful for ChangeLogs."
  :group 'copyright
  :type 'boolean
  :version "23.1")

;;###autoload(put 'copyright-at-end-flag 'safe-local-variable 'booleanp)

(defun copyright-regexp ()
  "What your copyright notice looks like.
The second \( \) construct must match the years."
  :group 'copyright
  :type 'regexp)

(defun copyright-names-regexp ()
  "Regexp matching the names which correspond to the user.
Only copyright lines where the name matches this regexp will be updated.
This allows you to avoid adding years to a copyright notice belonging to

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someone else or to a group for which you do not work."
:group 'copyright
:type 'regexp)

;; The worst that can happen is a malicious regexp that overflows in
;; the regexp matcher, a minor nuisance. It's a pain to be always
;; prompted if you want to put this in a dir-locals.el.
;;;###autoload(put 'copyright-names-regexp 'safe-local-variable 'stringp)

(defun copyright-years-regexp
"\(\s *\)\([1-9]\([-0-9, ';/*%#]s<\|s>\)*[0-9]+\)"
"Match additional copyright notice years.
The second \( \) construct must match the years."
:group 'copyright
:type 'regexp)

;; See "Copyright Notices" in maintain.info.
;; TODO? 'end only for ranges at the end, other for all ranges.
;; Minimum limit on the size of a range?
(defun copyright-year-ranges nil
"Non-nil if individual consecutive years should be replaced with a range.
If you use ranges, you should add an explanatory note in a README file.
The function `copyright-fix-years' respects this variable."
:group 'copyright
:type 'boolean
:version "24.1")

;;;###autoload(put 'copyright-year-ranges 'safe-local-variable 'booleanp)

(defun copyright-query 'function
"If non-nil, ask user before changing copyright.
When this is 'function', only ask when called non-interactively."
:group 'copyright
:type '(choice (const :tag "Do not ask")
(const :tag "Ask unless interactive" function)
(other :tag "Ask" t))

;;; when modifying this, also modify the comment generated by autoinsert.el
(defun copyright-current-gpl-version "3"
"String representing the current version of the GPL or nil.")

(defvar copyright-update t
"The function `copyright-update' sets this to nil after updating a buffer.")

;; This is a defvar rather than a defconst, because the year can
;; change during the Emacs session.
(defvar copyright-current-year (format-time-string "\%Y")
"String representing the current year.")

(defsubst copyright-limit () ; re-search-forward BOUND
(and copyright-limit
  (if copyright-at-end-flag
    (- (point) copyright-limit)
    (+ (point) copyright-limit)))))

(defun copyright-re-search (regexp &optional bound noerror count)
"Re-search forward or backward depending on `copyright-at-end-flag'."
(if copyright-at-end-flag
  (re-search-backward regexp bound noerror count)
  (re-search-forward regexp bound noerror count)))

(defun copyright-start-point ()
"Return point-min or point-max, depending on `copyright-at-end-flag'."
(if copyright-at-end-flag
  (point-max)
  (point-min)))

(defun copyright-offset-too-large-p ()
"Return non-nil if point is too far from the edge of the buffer."
(when copyright-limit
  (if copyright-at-end-flag
    (< (point) (- (point-max) copyright-limit))
    (> (point) (+ (point-min) copyright-limit))))))

(defun copyright-find-copyright ()
"Return non-nil if a copyright header suitable for updating is found.
The header must match `copyright-regexp' and `copyright-names-regexp', if set.
This function sets the match-data that `copyright-update-year' uses."
(widen)
/goto-char (copyright-start-point))
(condition-case err
  ;; (1) Need the extra \( \) around copyright-regexp because we
  ;; goto (match-end 1) below. See note (2) below.
  ;; (copyright-re-search (concat \"\(" copyright-regexp
  ;; "\\\( [ ]\|^\*\|^\n\)\)?.*\?\?\?\?\?\?
  ;; copyright-names-regexp \"\)"
  (copyright-limit)
  t)
  ;; In case the regexp is rejected. This is useful because
  ;; copyright-update is typically called from before-save-hook where
  ;; such an error is very inconvenient for the user.
  (error (message "Can't update copyright: %s" err) nil)))))

(defun copyright-find-end ()
)
"Possibly adjust the search performed by `copyright-find-copyright'.
If the years continue onto multiple lines that are marked as comments,
skips to the end of all the years."
(while (save-excursion
  (and (eq (following-char) ?),)
  (progn (forward-char 1) t)
  (progn (skip-chars-forward " \t") (eolp))
  comment-start-skip
  (save-match-data
    (forward-line 1)
    (and (looking-at comment-start-skip)
      (goto-char (match-end 0))))
  (looking-at-p copyright-years-regexp)))
(forward-line 1)
(re-search-forward comment-start-skip)
;; (2) Need the extra \( \) so that the years are subexp 3, as
;; they are at note (1) above.
(re-search-forward (format \("(%s)"\) copyright-years-regexp)))
(defun copyright-update-year (replace noquery)
  ;; This uses the match-data from copyright-find-copyright/end.
  (goto-char (match-end 1))
  (copyright-find-end)
  (setq copyright-current-year (format-time-string "%Y"))
  (unless (string= (buffer-substring (- (match-end 3) 2) (match-end 3))
    (substring copyright-current-year -2))
    (if (or noquery
      (save-window-excursion
        (switch-to-buffer (current-buffer))
        ;; Fixes some point-moving oddness (bug#2209).
        (save-excursion
          (y-or-n-p (if replace
            (concat "Replace copyright year(s) by "
                   copyright-current-year "? ")
          (concat "Add " copyright-current-year
                   " to copyright? "))))))))
  (if replace
    (replace-match copyright-current-year t t nil 3)
  (let ((size (save-excursion (skip-chars-backward "0-9"))))
    (if (and (eq (% (- (string-to-number copyright-current-year)
                   (string-to-number (buffer-substring
                                     (+ (point) size)
                                     (point))))
                   100
                   1)
               (or (eq (char-after (+ (point) size -1)) ?-)
                (eq (char-after (+ (point) size -2)) ?-)))
      ;; This is a range so just replace the end part.
(defun copyright-update (&optional arg interactivep)
"Update copyright notice to indicate the current year.
With prefix ARG, replace the years in the notice rather than adding
the current year after them. If necessary, and
'copyright-current-gpl-version' is set, any copying permissions
following the copyright are updated as well.
If non-nil, INTERACTIVEP tells the function to behave as when it's called
interactively."
(interactive "*P
\nd")
(when (or copyright-update interactivep)
(let ((noquery (or (not copyright-query)
  (and (eq copyright-query 'function) interactivep)))))
(save-excursion
(save-restriction
;; If names-regexp doesn't match, we should not mess with
;; the years _or_ the GPL version.
;; TODO there may be multiple copyrights we should update.
(when (copyright-find-copyright)
  (copyright-update-year arg noquery)
  (goto-char (copyright-start-point))
  (and copyright-current-gpl-version
;; Match the GPL version comment in .el files.
;; This is sensitive to line-breaks. :(
(copyright-re-search
 "the Free Software Foundation[:\n].*either version \n\[(0-9]+\]|\(? of the License\)?, or[ \n].*any later version"
(copyright-limit) t)
;; Don't update if the file is already using a more recent
;; version than the "current" one.
(< (string-to-number (match-string 1))
  (string-to-number copyright-current-gpl-version))
(or noquery
(save-match-data
(save-excursion
;; Insert a comma with the preferred number of spaces.
(insert
(save-excursion
(if (re-search-backward "\([0-9]\( *, *\)[0-9]\)
(line-beginning-position) t)
(match-string 1)
"", ""))
;; If people use the '91 '92 '93 scheme, do that as well.
(if (eq (char-after (+ (point) size -3)) ?')
(insert ?'))
;; Finally insert the new year.
(insert (substring copyright-current-year size)))))

;;;###autoload
(defun copyright-update (&optional arg interactivep)
"Update copyright notice to indicate the current year.
With prefix ARG, replace the years in the notice rather than adding
the current year after them. If necessary, and
'copyright-current-gpl-version' is set, any copying permissions
following the copyright are updated as well.
If non-nil, INTERACTIVEP tells the function to behave as when it's called
interactively."
(interactive "*P
\nd")
(when (or copyright-update interactivep)
(let ((noquery (or (not copyright-query)
  (and (eq copyright-query 'function) interactivep)))))
(save-excursion
(save-restriction
;; If names-regexp doesn't match, we should not mess with
;; the years _or_ the GPL version.
;; TODO there may be multiple copyrights we should update.
(when (copyright-find-copyright)
  (copyright-update-year arg noquery)
  (goto-char (copyright-start-point))
  (and copyright-current-gpl-version
;; Match the GPL version comment in .el files.
;; This is sensitive to line-breaks. :(
(copyright-re-search
 "the Free Software Foundation[:\n].*either version \n\[(0-9]+\]|\(? of the License\)?, or[ \n].*any later version"
(copyright-limit) t)
;; Don't update if the file is already using a more recent
;; version than the "current" one.
(< (string-to-number (match-string 1))
  (string-to-number copyright-current-gpl-version))
(or noquery
(save-match-data
(save-excursion
;; Insert a comma with the preferred number of spaces.
(insert
(save-excursion
(if (re-search-backward "\([0-9]\( *, *\)[0-9]\)
(line-beginning-position) t)
(match-string 1)
"", ""))
;; If people use the '91 '92 '93 scheme, do that as well.
(if (eq (char-after (+ (point) size -3)) ?')
(insert ?'))
;; Finally insert the new year.
(insert (substring copyright-current-year size)))))

;;;###autoload
(defun copyright-update (&optional arg interactivep)
"Update copyright notice to indicate the current year.
With prefix ARG, replace the years in the notice rather than adding
the current year after them. If necessary, and
'copyright-current-gpl-version' is set, any copying permissions
following the copyright are updated as well.
If non-nil, INTERACTIVEP tells the function to behave as when it's called
interactively."
(interactive "*P
\nd")
(when (or copyright-update interactivep)
(let ((noquery (or (not copyright-query)
  (and (eq copyright-query 'function) interactivep)))))
(save-excursion
(save-restriction
;; If names-regexp doesn't match, we should not mess with
;; the years _or_ the GPL version.
;; TODO there may be multiple copyrights we should update.
(when (copyright-find-copyright)
  (copyright-update-year arg noquery)
  (goto-char (copyright-start-point))
  (and copyright-current-gpl-version
;; Match the GPL version comment in .el files.
;; This is sensitive to line-breaks. :(
(copyright-re-search
 "the Free Software Foundation[:\n].*either version \n\[(0-9]+\]|\(? of the License\)?, or[ \n].*any later version"
(copyright-limit) t)
;; Don't update if the file is already using a more recent
;; version than the "current" one.
(< (string-to-number (match-string 1))
  (string-to-number copyright-current-gpl-version))
(or noquery
(save-match-data
(save-excursion
;; Insert a comma with the preferred number of spaces.
(insert
(save-excursion
(if (re-search-backward "\([0-9]\( *, *\)[0-9]\)
(line-beginning-position) t)
(match-string 1)
"", ""))
;; If people use the '91 '92 '93 scheme, do that as well.
(if (eq (char-after (+ (point) size -3)) ?')
(insert ?'))
;; Finally insert the new year.
(insert (substring copyright-current-year size)))))

;;;###autoload
(defun copyright-update (&optional arg interactivep)
"Update copyright notice to indicate the current year.
With prefix ARG, replace the years in the notice rather than adding
the current year after them. If necessary, and
'copyright-current-gpl-version' is set, any copying permissions
following the copyright are updated as well.
If non-nil, INTERACTIVEP tells the function to behave as when it's called
interactively."
(interactive "*P
\nd")
(when (or copyright-update interactivep)
(let ((noquery (or (not copyright-query)
  (and (eq copyright-query 'function) interactivep)))))
(save-excursion
(save-restriction
;; If names-regexp doesn't match, we should not mess with
;; the years _or_ the GPL version.
;; TODO there may be multiple copyrights we should update.
(when (copyright-find-copyright)
  (copyright-update-year arg noquery)
  (goto-char (copyright-start-point))
  (and copyright-current-gpl-version
;; Match the GPL version comment in .el files.
;; This is sensitive to line-breaks. :(
(copyright-re-search
 "the Free Software Foundation[:\n].*either version \n\[(0-9]+\]|\(? of the License\)?, or[ \n].*any later version"
(copyright-limit) t)
;; Don't update if the file is already using a more recent
;; version than the "current" one.
(< (string-to-number (match-string 1))
  (string-to-number copyright-current-gpl-version))
(or noquery
(save-match-data
(save-excursion
;; Insert a comma with the preferred number of spaces.
(insert
(save-excursion
(if (re-search-backward "\([0-9]\( *, *\)[0-9]\)
(line-beginning-position) t)
(match-string 1)
"", ""))
;; If people use the '91 '92 '93 scheme, do that as well.
(if (eq (char-after (+ (point) size -3)) ?')
(insert ?'))
;; Finally insert the new year.
(insert (substring copyright-current-year size)))))
(goto-char (match-end 1))
(save-window-excursion
(switch-to-buffer (current-buffer))
(y-or-n-p
(format "Replace GPL version %s with version %s? ")
(match-string-no-properties 1)
copyright-current-gpl-version)))))
(replace-match copyright-current-gpl-version t t nil 1)))
(set (make-local-variable 'copyright-update) nil))
;; If a write-file-hook returns non-nil, the file is presumed to be written.

;; FIXME heuristic should be within 50 years of present (cf calendar).
:::###autoload
(defun copyright-fix-years ()
"Convert 2 digit years to 4 digit years.
Uses heuristic: year >= 50 means 19xx, < 50 means 20xx.
If `copyright-year-ranges' (which see) is non-nil, also
independently replaces consecutive years with a range."
(interactive)
;; TODO there may be multiple copyrights we should fix.
(if (copyright-find-copyright)
(let ((s (match-beginning 3))
   (p (make-marker))
   ;; Not line-beg-pos, so we don't mess up leading whitespace.
   (copystart (match-beginning 0))
   e last sep year prev-year first-year range-start range-end)
;; In case years are continued over multiple, commented lines.
(goto-char (match-end 1))
(copyright-find-end)
(setq e (copy-marker (1+ (match-end 3))))
(goto-char s)
(while (re-search-forward "^[0-9]+" e t)
   (set-marker p (point))
(goto-char (match-beginning 0))
(setq year (string-to-number (match-string 0)))
(and (setq sep (char-before))
   (/= (char-syntax sep) ?-)
   (insert " ")
)(when (< year 100)
   (insert (if (>= year 50) "19" "20"))
(setq year (+ year (if (>= year 50) 1900 2000))))
(goto-char p)
(when copyright-year-ranges
;; If the previous thing was a range, don't try to tack more on.

;;; TODO should merge into existing range if possible.
(if (eq sep ?-)
(setq prev-year nil
    year nil)
  (if (and prev-year (= year (1+ prev-year)))
    (setq range-end (point))
  (when (and first-year prev-year
         (> prev-year first-year))
    (goto-char range-end)
    (delete-region range-start range-end)
    (insert (format "-%d" prev-year))
    (goto-char p))
(setq first-year year
    range-start (point)))))
(setq prev-year year
    last p))
(when last
  (when (and copyright-year-ranges
         first-year prev-year
         (> prev-year first-year))
    (goto-char range-end)
    (delete-region range-start range-end)
    (insert (format "-%d" prev-year)))
    (goto-char last)
  ;; Don't mess up whitesapce after the years.
  (skip-chars-backward "\t")
  (save-restriction
    (narrow-to-region copystart (point))
    ;; This is clearly wrong, eg what about comment markers?
    ;; (let ((fill-prefix "     "))
    ;;   ;; TODO do not break copyright owner over lines.
    ;;   (fill-region (point-min) (point-max)))
    (set-marker e nil)
    (set-marker p nil))
  ;; Simply reformatting the years is not copyrightable, so it does
  ;; not seem right to call this. Also it messes with ranges.
  ;; (copyright-update nil t))
  (message "No copyright message")))

;;;;autoload
(define-skeleton copyright
  "Insert a copyright by $ORGANIZATION notice at cursor."
  "Company: ":
  comment-start
  "Copyright (C) " `(format-time-string "-%Y") " by ":
  (or (getenv "ORGANIZATION")
    str)
  '(if (copyright-offset-too-large-p)
(message "Copyright extends beyond `copyright-limit' and won't be updated automatically.")

(comment-end \n)

;; TODO: recurse, exclude COPYING etc.
;;;###autoload
(defun copyright-update-directory (directory match &optional fix)
  "Update copyright notice for all files in DIRECTORY matching MATCH.
If FIX is non-nil, run `copyright-fix-years' instead."
(interactive "DDirectory: \nMFilenames matching (regexp): ")
(dolist (file (directory-files directory t match nil))
  (unless (file-directory-p file)
    (message "Updating file `%s'" file)
    ;; FIXME we should not use find-file+save+kill.
    (let ((enable-local-variables :safe)
          (enable-local-eval nil))
      (find-file file))
    (let ((inhibit-read-only t))
      (if fix
          (copyright-fix-years)
          (copyright-update))
      (save-buffer)
      (kill-buffer (current-buffer))))

(provide 'copyright)

;; For the copyright sign:
;; Local Variables:
;; coding: utf-8
;; End:

;;; copyright.el ends here
Copyright (C) 2007-2013 Free Software Foundation, Inc.
See the end of the file for license conditions.

NOTES ON COPYRIGHTS AND LICENSES

Some terminology:

A "copyright notice" consists of one or a few lines of this format:
"Copyright (C) 2006, 2007 Free Software Foundation, Inc."

A "license notice" is a statement of permissions, and is usually much longer, eg the text "GNU Emacs is free software...".

Summary for the impatient:
1. Don't add code to Emacs written by someone other than yourself without thinking about the legal aspect. Even if the changes are trivial, consider if they combine with previous changes by the same author to make a non-trivial total. If so, make sure they have an assignment. If adding a whole file adjust the copyright statements in the file.

2. When installing code written by someone else, the ChangeLog entry should be in the name of the author of the code, not the person who installs it. Also use bzr commit's "--author" option. Do not install any of your own changes in the same commit.

3. With images, add the legal info to a README file in the directory containing the image.

4. If you add a lot of text to a previously trivial file that had no legal notices, consider if you should add a copyright statement.

5. Please don't just add an FSF copyright without checking that is the right thing to do.

Every non-trivial file distributed through the Emacs repository should be self-explanatory in terms of copyright and license. This includes files that are not distributed in Emacs releases (for example, the admin/ directory), because the whole Emacs repository is publicly available.

The definition of triviality is a little vague, but a rule of thumb is that any file with less than 15 lines of actual content is trivial. If a file is auto-generated (eg ldefs-boot.el) from another one in the repository, then it does not really matter about adding a copyright statement to the generated file.

Legal advice says that we could, if we wished, put a license notice even in trivial files, because copyright law in general looks at the overall work as a whole. It is not _necessary_ to do so, and rms prefers that we do not. This means one needs to take care that trivial files do not grow and become non-trivial without having a license added. NB consequently, if you add a lot of text to a small file, consider whether your changes have made the file worthy of a copyright notice, and if so, please add one.

It can be helpful to put a reminder comment at the start of a trivial file, eg: "add a license notice if this grows to > 10 lines of code".

The years in the copyright notice should be updated every year (see file "years" in this directory). The PDF versions of refcards etc
should display copyright notices (an exception to the rule about "generated" files), but these can just display the latest year. The full list of years should be kept in comments in the source file. If these are distributed in the repository, check in a regenerated version when the tex files are updated.

Copyright changes should be propagated to any associated repositories (eg Gnus, MH-E), but I think in every case this happens automatically (?).

All README (and other such text files) that are non-trivial should contain copyright statements and GPL license notices, exactly as .el files do (see e.g. README in the top-level directory). Before 2007, we used a simple, short statement permitting copying and modification provided legal notices were retained. In Feb 2007 we switched to the standard GPL text, on legal advice. Some older text files in etc/ should, however, keep their current licenses (see below for list).

For image files, the copyright and license details should be recorded in a README file in each directory with images. (Legal advice says that we need not add notices to each image file individually, if they allow for that.). It is recommended to use the word "convert" to describe the automatic process of changing an image from one format to another (http://lists.gnu.org/archive/html/emacs-devel/2007-02/msg00618.html).

When installing a file with an "unusual" license (after checking first it is ok), put a copy of the copyright and license in the file (if possible. It's ok if this makes the file incompatible with its original format, if it can still be used by Emacs), or in a README file in the relevant directory.

The vast majority of files are copyright FSF and distributed under the GPL. A few files (mainly related to language and charset support) are copyright AIST alone, or both AIST and FSF. (Contact Kenichi Handa with questions about legal issues in such files.) In all these cases, the copyright years in each file should be updated each year.

There are some exceptions to the points in the previous paragraph, and these are listed below for reference, together with any files where the copyright needs to be updated in "unusual" ways.

If you find any other such cases, please consult to check they are ok, and note them in this file. This includes missing copyright notices, and "odd" copyright holders. In most cases, individual authors should not appear in copyright statements. Either the copyright has been assigned (check copyright.list) to the FSF (in which case the original author should be removed and the year(s) transferred to the FSF); or
else it is possible the file should not be in Emacs at all (please report!).

Note that it seems painfully clear that one cannot rely on commit logs, or even ChangeLogs, for older changes. People often installed changes from others, without recording the true authorship.

[For reference, most of these points were established via email with rms, 2007/1, "Copyright years".]

In March 2011, information on some files no longer included was removed. Consult older versions of this document if interested.]

lisp/version.el           # emacs-copyright
lib-src/ebrowse.c         # version
lib-src/etags.c           # print_version
lib-src/rcs2log           # Copyright
Cocoa/Emacs.base/Contents/Info.plist
Cocoa/Emacs.base/Contents/Resources/English.lproj/InfoPlist.strings
GNUstep/Emacs.base/Resources/Info-gnustep.plist
`set-copyright' in admin.el will do all the above.

aclocal.m4
configure
m4/*.m4
- copyright FSF, with unlimited permission to copy, distribute and modify

lib/Makefile.in
- copyright FSF, with MIT-like license

build-aux/install-sh
- this file is copyright MIT, which is OK. Leave the copyright alone.

text/defyear macro for the latest year.

text/future-bug
- doesn't need a humorless disclaimer, because Karl Fogel says we can consider it part of Emacs, and he has a blanker disclaimer for Emacs changes. (email to rgm "[Emacs-commit] emacs/etc future-bug", 2007028)

text/letter,pbm,letter.xpm
- trivial, no notice needed.

text/FTP, ORDERS
- trivial (at time of writing), no license needed

e etc/GNU, INTERVIEW, LINUX-GNU, MOTIVATION, SERVICE, THE-GNU-PROJECT, WHY-FREE

rms: "These are statements of opinion or testimony. Their licenses should permit verbatim copying only. Please don't change the licenses that they have. They are distributed with Emacs but they are not part of Emacs."

e etc/HELLO

standard notices. Just a note that although the file itself is not really copyrightable, in the wider context of it being part of Emacs (and written by those with assignments), a standard notice is fine.

e etc/MAILINGLISTS

rms: simple license is fine for this file

e leim/CXTERM-DIC/4Corner.tit, ARRAY30.tit, CCDOSPY.tit, ECDICT.tit, ETZY.tit, PY-b5.tit, Punct-b5.tit, Punct.tit, QI-b5.tit, QI.tit, SW.tit, TONEPY.tit, ZOZY.tit

- leave the copyrights alone.

leim/MISC-DIC/CTLau-b5.html, CTLau.html, cangjie-table.b5, cangjie-table.cns, pinyin.map, ziranma.cin

- leave the copyright alone.

Note that pinyin.map, ziranma.cin (and hence the generated leim/quail/PY.el, ZIRANMA.el) are under GPLv1 or later.

leim/SKK-DIC/SKK-JISYO.L

ja-dic/ja-dic.el

(the latter is auto-generated from the former). Leave the copyright alone.

leim/SKK-DIC

ja-dic/ja-dic.el

(leim/SKK-DIC/SKK-JISYO.L)

ja-dic/ja-dic.el

(the latter is auto-generated from the former). Leave the copyright alone.

leim/SKK-DIC

ja-dic/ja-dic.el

(lib-src/etags.c

Copyright information is duplicated in etc/ETAGS.README. Update that file too.

Until 2007 etags.c was described as being copyright FSF and Ken Arnold. After some investigation in Feb 2007, then to the best of our knowledge we believe that the original 1984 Emacs version was based on the version in BSD4.2. See for example this 1985 post from Ken Arnold: <http://groups.google.com/group/mod.sources/browse_thread/thread/ffe5c55845a640a9>

I have received enough requests for the current source to ctags to post it. Here is the latest version (what will go out with 4.3, modulo any bugs fixed during the beta period). It is the 4.2 ctags with recognition of yacc and lex tags added.

See also a 1984 version of ctags (no copyright) posted to net.sources:
Version of etags.c in emacs-16.56 duplicates comment typos.

Accordingly, in Feb 2007 we added a 1984 copyright for the University of California and a revised BSD license. The terms of this require that the full license details be available in binary distributions - hence the file etc/ETAGS.README. The fact that the --version output just says "Copyright <year> FSF" is apparently OK from a legal point of view.

lisp/cedet/semantic/imenu.el
- See http://lists.gnu.org/archive/html/emacs-devel/2010-03/msg00410.html in which Eric Ludlam established that the remaining contributions from authors other than himself were negligible.

lisp/play/tetris.el
- no special rules about the copyright. We note here that we believe (2007/1) there is no problem with our use of the name "tetris" or the concept.
rms: "My understanding is that game rules as such are not copyrightable."
rms: Legal advice is that we are ok and need not worry about this.

lisp/net/tramp.el
- there are also copyrights in the body of the file. Update these too.

lwlib/
rms (2007/02/17): "lwlib is not assigned to the FSF; we don't consider it part of Emacs. [...] Therefore non-FSF copyrights are ok in lwlib."

NB don't change the GPL version used for lwlib .c and .h files (see below).

FSF copyrights should only appear in files which have undergone non-trivial cumulative changes from the original versions in the Lucid Widget Library. NB this means that if you make non-trivial changes to a file with no FSF copyright, you should add one. Also, if changes are reverted to the extent that a file becomes basically the same as the original version, the FSF copyright should be removed.

In my (rgm) opinion, as of Feb 2007, all the non-trivial files differ significantly from the original versions, with the exception of lwlib-Xm.h. Most of the changes that were made to this file have subsequently been reverted. Therefore I removed the FSF copyright from this file (which is arguably too trivial to merit a notice anyway). I added FSF copyright to the following files which did not have them
Copyright years before the advent of public CVS in 2001 were those when I judged (from the CVS logs) that non-trivial amounts of change had taken place. I also adjusted the existing FSF years in xlwmenu.c, xlwmenu.h, and xlwmenuP.h on the same basis.

Note that until Feb 2007, the following files in lwlib were lacking notices: lwlib-int.h, lwlib.h, lwlib-Xaw.h, lwlib-Xlw.h, lwlib-utils.h.

The following files did not list a Lucid copyright: xlwmenu.h, xlwmenuP.h.

To the best of our knowledge, all the code files in lwlib were originally part of the Lucid Widget Library, even if they did not say so explicitly. For example, they were all present in Lucid Emacs 19.1 in 1992. The exceptions are the two Xaw files, which did not appear till Lucid Emacs 19.9 in 1994. The file lwlib-Xaw.h is too trivial to merit a copyright notice, but would presumably have the same one as lwlib-Xaw.c. We have been unable to find a true standalone version of LWL, if there was such a thing, to check definitively.

To clarify the situation, in Feb 2007 we added Lucid copyrights and GPL notices to those files lacking either that were non-trivial, namely: lwlib-int.h, lwlib.h, xlwmenu.h, xlwmenuP.h. This represents our best understanding of the legal status of these files. We also clarified the notices in Makefile.in, which was originally the Makefile auto-generated from Lucid's Imakefile.

As of Feb 2007, the following files are considered too trivial for notices: lwlib-Xaw.h, lwlib-Xlw.h, lwlib-utils.h.

The version of lwlib/ first installed in Emacs seems to be the same as that used in Lucid Emacs 19.8 (released 6-sep-93); except the two Xaw files, which did not appear till Athena support was added in Lucid Emacs 19.9. In Lucid Emacs 19.1, all files were under GPLv1 or later, but by Lucid Emacs 19.8, lwlib.c and xlwmenu.c had been switched to v2 or later. These are the versions that were first installed in Emacs. So in GNU Emacs, these two files have been under v2 or later since 1994.

It seems that it was the intention of Lucid to use v1 or later (excepting the two files mentioned previously); so this is the license we have used when adding notices to code that did not have notices originally. Although we have the legal right to switch to v2 or later, rms prefers that we do not do so.
doc/*/doclicense.texi
- leave the copyright alone in this imported file.

doc/*.texi - All manuals should be under GFDL (but see below), and should include a copy of it, so that they can be distributed separately. faq.texi has a different license, for some reason no-one can remember.

doc/misc/mh-e.texi is dual-licensed (GPL and GFDL) per agreement with FSF (reconfirmed by rms Aug 25 2008). Discussion with licensing@fsf.org starting on Thu, 07 Aug 2003 with subject: 
"[gnu.org #58812] Changing license of MH-E manual"

msdos/is_exec.c, sigaction.c - these files are copyright DJ Delorie.
Leave the copyrights alone. Leave the Eli Zaretskii copyright in is_exec.c alone. See the msdos/README file for the legal history of these files.

msdos/sed*.inp - These files are copyright FSF and distributed under an MIT-like license.

oldXMenu/
Keep the "copyright.h" method used by X11, rather than moving the licenses into the files. Note that the original X10.h did not use copyright.h, but had an explicit notice, which we retain.

If you make non-trivial changes to a file which does not have an FSF notice, add one and a GPL notice (as per Activate.c). If changes to a file are reverted such that it becomes essentially the same as the original X11 version, remove the FSF notice and GPL.

Only the files which differ significantly from the original X11 versions should have FSF copyright and GPL notices. At time of writing (Feb 2007), this is: Activate.c, Create.c, Internal.c. I (rgm) established this by diff'ing the current files against those in X11R1, and when I found significant differences looking in the ChangeLog for the years they originated (the CVS logs are truncated before 1999). I therefore removed the FSF notices (added in 200x) from the other files. There are some borderline cases IMO: AddSel.c, InsSel.c, XMakeAssoc.c, XMenu.h. For these I erred on the side of NOT adding FSF notices.

With regards to whether the files we have changed should have GPL.
added or not, rms says (2007-02-25, "oldXmenu issues"):

> It does not make much difference, because oldXmenu is obsolete except for use in Emacs (and it is not normally used in Emacs any more either).

So, to make things simple, please put our changes under the GPL.

insque.c had no copyright notice until 2005. The version of insque.c added to Emacs 1992-01-27 is essentially the same as insremque.c added to glic three days later by Roland McGrath, with an FSF copyright and GPL, but no ChangeLog entry:

<http://sources.redhat.com/cgi-bin/cvsweb.cgi/~checkout~/libc/misc/insremque.c?rev=1.1&cvsroot=glibc>

To the best of his recollection, McGrath (who has a copyright assignment) was the author of this file (email from roland at frob.com to rms, 2007-02-23, "Where did insque.c come from?"). The FSF copyright and GPL in this file are therefore correct as far as we understand it.

Imakefile had no legal info in Feb 2007, but was obviously based on the X11 version (which also had no explicit legal info). As it was unused, I removed it. It would have the same MIT copyright as Makefile.in does now.

src/gmalloc.c
- contains numerous copyrights from the GNU C library. Leave them alone.

src/ndir.h
- see comments below. This file is OK to be released with Emacs 22, but we may want to revisit it afterwards.

** Some notes on resolved issues, for historical information only

e tc/TERMS
rms: "surely written either by me or by ESR. (If you can figure out which year, I can probably tell you which.) Either way, we have papers for it." It was present in Emacs-16.56 (15-jul-85). rms: "Then I conclude it was written by me."

lisp/term/README
- had no copyright notice till Feb 2007. ChangeLog.3 suggests it was written by Eric Raymond. When asked by rms on 14 Feb 2007 he said:

> I don't remember writing it, but it reads like my prose and I believe I wrote the feature(s) it's describing. So I would have been the
likeliest person to write it.

Odds are that I did, but I'm not certain.

Accordingly, FSF copyright was added.

src/unexhp9k800.c
- briefly removed due to legal uncertainly Jan-Mar 2007. The relevant assignment is under "hp9k800” in copyright.list. File was written by John V. Morris at HP, and disclaimed by the author and HP. So this file is public domain.

lisp/progmodes/python.el
Dave Love alerted us to a potential legal problem:
On consultation with a lawyer, we found there was no problem:

** Issues that are "fixed" for the release of Emacs 22, but we may wish to revisit later in more detail

admin/check-doc-strings
File says it's in the public domain, but that might not make it so.

etc/e/eterm-color.ti
src/ndir.h
On legal advice from Matt Norwood, the following comment was added to these files in Feb/Mar 2007:

The code here is forced by the interface, and is not subject to copyright, constituting the only possible expression of the algorithm in this format.

With the addition of this notice, these files are OK for the upcoming Emacs-22 release. Post-release, we can revisit this issue and possibly add a list of all authors who have changed these files. (details in email from Matt Norwood to rms, 2007/02/03).

src/s/aix3-2.h, hpux8.h, hpux9.h, irix5-0.h, netbsd.h, usg5-4-2.h
[note some of these have since been merged into other files]
- all these (not obviously trivial) files were missing copyrights till Feb 2007, when FSF copyright was added. Matt Norwood advised:
For now, I think the best policy is to assume that we do have assignments from the authors (I recall many of these header files as having been originally written by rms), and to attach an FSF copyright with GPL notice. We can amend this if and when we complete the code audit. Any additions to these files by non-assigned authors are arguably "de minimis" contributions to Emacs: small changes or suggestions to a work that are subsumed in the main authors' copyright in the entire work.

Here is my (rgm) take on the details of the above files:

? irix5-0.h
I would say started non-trivial (1993, jimb, heavily based on irix4-0.h). A few borderline non-tiny changes since.

usg5-4-2.h
started non-trivial, but was heavily based on usg5-4.h, which was and is copyright FSF. only tiny changes since installed.

aix3-2.h, hpux8.h, hpux9.h, netbsd.h
started trivial, grown in tiny changes.

netbsd.h:
Roland McGrath said to rms (2007/02/17): "I don't really remember anything about it. If I put it in without other comment, then probably I wrote it myself."

Someone might want to tweak the copyright years (for dates before 2001) that I used in all these files.

Note: erring on the side of caution, I also added notices to some files I thought might be considered non-trivial (if one includes comment) in s/:
  aix4-1.h hpux10.h irix6-5.h
  sol2.h

(everything with > 30 non-blank lines, which at least is _some_ kind of system)

*** These are copyright issues that need not be fixed until after Emacs 22 is released (though if they can be fixed before, that is obviously good):

Is it OK to just `bzr remove' a file for legal reasons, or is something more drastic needed? A removed file is still available from
the repository, if suitable options are applied. (This issue obviously does not affect a release).
rms: will ask lawyer

Make sure that all files with non-standard copyrights or licenses are noted in this file.

REMOVED etc/gnu.xpm, nt/icons/emacs21.ico, nt/icons/sink.ico
- Restore if find legal info. emacs21.ico is not due to Davenport.
Geoff Voelker checked but could not find a record of where it came from.

e tc/images
Image files from GTK, Gnome are under GPLv2 (no "or later"?). RMS will contact image authors in regards to future switch to v3.

e tc/TUTORIAL* (translations)
switch to GPL (see english TUTORIAL)
rms: "We can leave the TUTORIAL translations alone until their maintainers update them."
Can adapt short license text from end of GPL translations at:
http://www.gnu.org/licenses/translations.html
Only a few sentences around the license notice need changing from previous version.
Done: TUTORIAL.eo

*** These are copyright issues still to be addressed:

None known.

** NOTES ON RELICENSING TO GPL3

The EMACS_22_BASE branch was changed to GPLv3 (or later) 2007/07/25.

Some notes:

1. There are some files in the Emacs tree which are not part of Emacs (eg those included from Gnulib). These are all copyright FSF and (at time of writing) GPL >= 2. rms says may as well leave the licenses of these alone (may import them from Gnulib again). These are:
Gnulib:
build-aux/compile
build-aux/config.guess
build-aux/config.sub
build-aux/depcomp
build-aux/missing
build-aux/move-if-change
build-aux/snippet/_Noreturn.h
build-aux/snippet/argnonnull.h
build-aux/snippet/c++defs.h
build-aux/snippet/warn-on-use.h
doc/man/texinfo.tex
lib/*.[ch]
lib/gnulib.mk
src/gmalloc.c
src/termcap.c
src/tparam.c

Note _not_ included in the above are src/regex.{c,h} (rms: "That forked version is only in Emacs, so definitely relicense that."), and oldXMenu/insque.c (rms: "We wrote that specifically for Emacs, so definitely relicense that.").

2. The files that are copyright FSF and AIST, or AIST alone, should be and were updated, ditto the oldXMenu files with FSF copyright, and msdos/is_exec.c and sigaction.c.

3. lwlib/

Files originally in Lucid Widget Library were left alone (excludes ChangeLog, etc), ie remain under GPL v1 or later, or v2 or later. (rms: "We may as well leave this alone, since we are never going to change it much.")

4. There are some files where the FSF holds no copyright. These were left alone:

   leim/MISC-DIC/CTLau-b5.html >= v2
   leim/MISC-DIC/CTLau.html   >= v2
   (above included in lisp/international/titdic-cnv.el)
   leim/MISC-DIC/pinyin.map   >= v1
   leim/MISC-DIC/ziranma.cin  >= v1
   leim/SKK-DIC/SKK-JISYO.L   >= v2
   leim/SKK-DIC/README        >= v2
   leim/ja-dic/ja-dic.el      >= v2

5. At time of writing, some non-Emacs icons included from Gnome remain under GPLv2 (no "or later"). See:
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(For more information about the GNU project and free software, look at the files `GNU', `COPYING', and `DISTRIB', in the same directory as this file.)

Why Software Should Be Free

by Richard Stallman

(Version of April 24, 1992)

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Introduction
************

The existence of software inevitably raises the question of how decisions about its use should be made. For example, suppose one individual who has a copy of a program meets another who would like a copy. It is possible for them to copy the program; who should decide whether this is done? The individuals involved? Or another party, called the "owner"?

Software developers typically consider these questions on the assumption that the criterion for the answer is to maximize developers'
profits. The political power of business has led to the government adoption of both this criterion and the answer proposed by the developers: that the program has an owner, typically a corporation associated with its development.

I would like to consider the same question using a different criterion: the prosperity and freedom of the public in general.

This answer cannot be decided by current law--the law should conform to ethics, not the other way around. Nor does current practice decide this question, although it may suggest possible answers. The only way to judge is to see who is helped and who is hurt by recognizing owners of software, why, and how much. In other words, we should perform a cost-benefit analysis on behalf of society as a whole, taking account of individual freedom as well as production of material goods.

In this essay, I will describe the effects of having owners, and show that the results are detrimental. My conclusion is that programmers have the duty to encourage others to share, redistribute, study and improve the software we write: in other words, to write "free" software.(1)

How Owners Justify Their Power
********************************

Those who benefit from the current system where programs are property offer two arguments in support of their claims to own programs: the emotional argument and the economic argument.

The emotional argument goes like this: "I put my sweat, my heart, my soul into this program. It comes from *me*, it's *mine*!"

This argument does not require serious refutation. The feeling of attachment is one that programmers can cultivate when it suits them; it is not inevitable. Consider, for example, how willingly the same programmers usually sign over all rights to a large corporation for a salary; the emotional attachment mysteriously vanishes. By contrast, consider the great artists and artisans of medieval times, who didn't even sign their names to their work. To them, the name of the artist was not important. What mattered was that the work was done--and the purpose it would serve. This view prevailed for hundreds of years.

The economic argument goes like this: "I want to get rich (usually described inaccurately as 'making a living'), and if you don't allow me to get rich by programming, then I won't program. Everyone else is like me, so nobody will ever program. And then you'll be stuck with no programs at all!" This threat is usually veiled as friendly advice from the wise.
I'll explain later why this threat is a bluff. First I want to address an implicit assumption that is more visible in another formulation of the argument.

This formulation starts by comparing the social utility of a proprietary program with that of no program, and then concludes that proprietary software development is, on the whole, beneficial, and should be encouraged. The fallacy here is in comparing only two outcomes--proprietary software vs. no software--and assuming there are no other possibilities.

Given a system of intellectual property, software development is usually linked with the existence of an owner who controls the software's use. As long as this linkage exists, we are often faced with the choice of proprietary software or none. However, this linkage is not inherent or inevitable; it is a consequence of the specific social/legal policy decision that we are questioning: the decision to have owners. To formulate the choice as between proprietary software vs. no software is begging the question.

The Argument against Having Owners
**********************************

The question at hand is, "Should development of software be linked with having owners to restrict the use of it?"

In order to decide this, we have to judge the effect on society of each of those two activities *independently*: the effect of developing the software (regardless of its terms of distribution), and the effect of restricting its use (assuming the software has been developed). If one of these activities is helpful and the other is harmful, we would be better off dropping the linkage and doing only the helpful one.

To put it another way, if restricting the distribution of a program already developed is harmful to society overall, then an ethical software developer will reject the option of doing so.

To determine the effect of restricting sharing, we need to compare the value to society of a restricted (i.e., proprietary) program with that of the same program, available to everyone. This means comparing two possible worlds.

This analysis also addresses the simple counterargument sometimes made that "the benefit to the neighbor of giving him or her a copy of a program is cancelled by the harm done to the owner." This counterargument assumes that the harm and the benefit are equal in magnitude. The analysis involves comparing these magnitudes, and shows
that the benefit is much greater.

To elucidate this argument, let's apply it in another area: road construction.

It would be possible to fund the construction of all roads with tolls. This would entail having toll booths at all street corners. Such a system would provide a great incentive to improve roads. It would also have the virtue of causing the users of any given road to pay for that road. However, a toll booth is an artificial obstruction to smooth driving--artificial, because it is not a consequence of how roads or cars work.

Comparing free roads and toll roads by their usefulness, we find that (all else being equal) roads without toll booths are cheaper to construct, cheaper to run, safer, and more efficient to use.(2) In a poor country, tolls may make the roads unavailable to many citizens. The roads without toll booths thus offer more benefit to society at less cost; they are preferable for society. Therefore, society should choose to fund roads in another way, not by means of toll booths. Use of roads, once built, should be free.

When the advocates of toll booths propose them as *merely* a way of raising funds, they distort the choice that is available. Toll booths do raise funds, but they do something else as well: in effect, they degrade the road. The toll road is not as good as the free road; giving us more or technically superior roads may not be an improvement if this means substituting toll roads for free roads.

Of course, the construction of a free road does cost money, which the public must somehow pay. However, this does not imply the inevitability of toll booths. We who must in either case pay will get more value for our money by buying a free road.

I am not saying that a toll road is worse than no road at all. That would be true if the toll were so great that hardly anyone used the road--but this is an unlikely policy for a toll collector. However, as long as the toll booths cause significant waste and inconvenience, it is better to raise the funds in a less obstructive fashion.

To apply the same argument to software development, I will now show that having "toll booths" for useful software programs costs society dearly: it makes the programs more expensive to construct, more expensive to distribute, and less satisfying and efficient to use. It will follow that program construction should be encouraged in some other way. Then I will go on to explain other methods of encouraging and (to the extent actually necessary) funding software development.
The Harm Done by Obstructing Software
======================================

Consider for a moment that a program has been developed, and any necessary payments for its development have been made; now society must choose either to make it proprietary or allow free sharing and use. Assume that the existence of the program and its availability is a desirable thing.(3)

Restrictions on the distribution and modification of the program cannot facilitate its use. They can only interfere. So the effect can only be negative. But how much? And what kind?

Three different levels of material harm come from such obstruction:

* Fewer people use the program.
* None of the users can adapt or fix the program.
* Other developers cannot learn from the program, or base new work on it.

Each level of material harm has a concomitant form of psychosocial harm. This refers to the effect that people's decisions have on their subsequent feelings, attitudes and predispositions. These changes in people’s ways of thinking will then have a further effect on their relationships with their fellow citizens, and can have material consequences.

The three levels of material harm waste part of the value that the program could contribute, but they cannot reduce it to zero. If they waste nearly all the value of the program, then writing the program harms society by at most the effort that went into writing the program. Arguably a program that is profitable to sell must provide some net direct material benefit.

However, taking account of the concomitant psychosocial harm, there is no limit to the harm that proprietary software development can do.

Obstructing Use of Programs
===========================

The first level of harm impedes the simple use of a program. A copy of a program has nearly zero marginal cost (and you can pay this cost by doing the work yourself), so in a free market, it would have nearly zero price. A license fee is a significant disincentive to use the program. If a widely-useful program is proprietary, far fewer people will use it.
It is easy to show that the total contribution of a program to society is reduced by assigning an owner to it. Each potential user of the program, faced with the need to pay to use it, may choose to pay, or may forego use of the program. When a user chooses to pay, this is a zero-sum transfer of wealth between two parties. But each time someone chooses to forego use of the program, this harms that person without benefiting anyone. The sum of negative numbers and zeros must be negative.

But this does not reduce the amount of work it takes to *develop* the program. As a result, the efficiency of the whole process, in delivered user satisfaction per hour of work, is reduced.

This reflects a crucial difference between copies of programs and cars, chairs, or sandwiches. There is no copying machine for material objects outside of science fiction. But programs are easy to copy; anyone can produce as many copies as are wanted, with very little effort. This isn't true for material objects because matter is conserved: each new copy has to be built from raw materials in the same way that the first copy was built.

With material objects, a disincentive to use them makes sense, because fewer objects bought means less raw materials and work needed to make them. It's true that there is usually also a startup cost, a development cost, which is spread over the production run. But as long as the marginal cost of production is significant, adding a share of the development cost does not make a qualitative difference. And it does not require restrictions on the freedom of ordinary users.

However, imposing a price on something that would otherwise be free is a qualitative change. A centrally-imposed fee for software distribution becomes a powerful disincentive.

What's more, central production as now practiced is inefficient even as a means of delivering copies of software. This system involves enclosing physical disks or tapes in superfluous packaging, shipping large numbers of them around the world, and storing them for sale. This cost is presented as an expense of doing business; in truth, it is part of the waste caused by having owners.

Damaging Social Cohesion

Suppose that both you and your neighbor would find it useful to run a certain program. In ethical concern for your neighbor, you should feel that proper handling of the situation will enable both of you to use it. A proposal to permit only one of you to use the program, while restraining the other, is divisive; neither you nor your neighbor should
find it acceptable.

Signing a typical software license agreement means betraying your neighbor: "I promise to deprive my neighbor of this program so that I can have a copy for myself." People who make such choices feel internal psychological pressure to justify them, by downgrading the importance of helping one's neighbors--thus public spirit suffers. This is psychosocial harm associated with the material harm of discouraging use of the program.

Many users unconsciously recognize the wrong of refusing to share, so they decide to ignore the licenses and laws, and share programs anyway. But they often feel guilty about doing so. They know that they must break the laws in order to be good neighbors, but they still consider the laws authoritative, and they conclude that being a good neighbor (which they are) is naughty or shameful. That is also a kind of psychosocial harm, but one can escape it by deciding that these licenses and laws have no moral force.

Programmers also suffer psychosocial harm knowing that many users will not be allowed to use their work. This leads to an attitude of cynicism or denial. A programmer may describe enthusiastically the work that he finds technically exciting; then when asked, "Will I be permitted to use it?", his face falls, and he admits the answer is no. To avoid feeling discouraged, he either ignores this fact most of the time or adopts a cynical stance designed to minimize the importance of it.

Since the age of Reagan, the greatest scarcity in the United States is not technical innovation, but rather the willingness to work together for the public good. It makes no sense to encourage the former at the expense of the latter.

Obstructing Custom Adaptation of Programs

The second level of material harm is the inability to adapt programs. The ease of modification of software is one of its great advantages over older technology. But most commercially available software isn't available for modification, even after you buy it. It's available for you to take it or leave it, as a black box--that is all.

A program that you can run consists of a series of numbers whose meaning is obscure. No one, not even a good programmer, can easily change the numbers to make the program do something different.

Programmers normally work with the "source code" for a program, which is written in a programming language such as Fortran or C. It uses
names to designate the data being used and the parts of the program, and it represents operations with symbols such as `+' for addition and `-.' for subtraction. It is designed to help programmers read and change programs. Here is an example; a program to calculate the distance between two points in a plane:

```c
float
distance (p0, p1)
{
    struct point p0, p1;
    float xdist = p1.x - p0.x;
    float ydist = p1.y - p0.y;
    return sqrt (xdist * xdist + ydist * ydist);
}
```

Here is the same program in executable form, on the computer I normally use:

```
1314258944      -232267772      -231844864      1634862
1411907592      -231844736      2159150         1420296208
-234880989      -234879837      -234879966      -232295424
1644167167      -3214848        1090581031      1962942495
572518958       -803143692      1314803317
```

Source code is useful (at least potentially) to every user of a program. But most users are not allowed to have copies of the source code. Usually the source code for a proprietary program is kept secret by the owner, lest anybody else learn something from it. Users receive only the files of incomprehensible numbers that the computer will execute. This means that only the program's owner can change the program.

A friend once told me of working as a programmer in a bank for about six months, writing a program similar to something that was commercially available. She believed that if she could have gotten source code for that commercially available program, it could easily have been adapted to their needs. The bank was willing to pay for this, but was not permitted to--the source code was a secret. So she had to do six months of make-work, work that counts in the GNP but was actually waste.

The MIT Artificial Intelligence lab (AI lab) received a graphics printer as a gift from Xerox around 1977. It was run by free software to which we added many convenient features. For example, the software would notify a user immediately on completion of a print job. Whenever the printer had trouble, such as a paper jam or running out of paper, the software would immediately notify all users who had print jobs queued. These features facilitated smooth operation.
Later Xerox gave the AI lab a newer, faster printer, one of the first laser printers. It was driven by proprietary software that ran in a separate dedicated computer, so we couldn't add any of our favorite features. We could arrange to send a notification when a print job was sent to the dedicated computer, but not when the job was actually printed (and the delay was usually considerable). There was no way to find out when the job was actually printed; you could only guess. And no one was informed when there was a paper jam, so the printer often went for an hour without being fixed.

The system programmers at the AI lab were capable of fixing such problems, probably as capable as the original authors of the program. Xerox was uninterested in fixing them, and chose to prevent us, so we were forced to accept the problems. They were never fixed.

Most good programmers have experienced this frustration. The bank could afford to solve the problem by writing a new program from scratch, but a typical user, no matter how skilled, can only give up.

Giving up causes psychosocial harm--to the spirit of self-reliance. It is demoralizing to live in a house that you cannot rearrange to suit your needs. It leads to resignation and discouragement, which can spread to affect other aspects of one's life. People who feel this way are unhappy and do not do good work.

Imagine what it would be like if recipes were hoarded in the same fashion as software. You might say, "How do I change this recipe to take out the salt?", and the great chef would respond, "How dare you insult my recipe, the child of my brain and my palate, by trying to tamper with it? You don't have the judgment to change my recipe and make it work right!"

"But my doctor says I'm not supposed to eat salt! What can I do? Will you take out the salt for me?"

"I would be glad to do that; my fee is only $50,000." Since the owner has a monopoly on changes, the fee tends to be large. "However, right now I don't have time. I am busy with a commission to design a new recipe for ship's biscuit for the Navy Department. I might get around to you in about two years."

Obstructing Software Development
=================================

The third level of material harm affects software development. Software development used to be an evolutionary process, where a person would take an existing program and rewrite parts of it for one new feature, and then another person would rewrite parts to add another
feature; in some cases, this continued over a period of twenty years. Meanwhile, parts of the program would be "cannibalized" to form the beginnings of other programs.

The existence of owners prevents this kind of evolution, making it necessary to start from scratch when developing a program. It also prevents new practitioners from studying existing programs to learn useful techniques or even how large programs can be structured.

Owners also obstruct education. I have met bright students in computer science who have never seen the source code of a large program. They may be good at writing small programs, but they can't begin to learn the different skills of writing large ones if they can't see how others have done it.

In any intellectual field, one can reach greater heights by standing on the shoulders of others. But that is no longer generally allowed in the software field--you can only stand on the shoulders of the other people *in your own company*.

The associated psychosocial harm affects the spirit of scientific cooperation, which used to be so strong that scientists would cooperate even when their countries were at war. In this spirit, Japanese oceanographers abandoning their lab on an island in the Pacific carefully preserved their work for the invading U.S. Marines, and left a note asking them to take good care of it.

Conflict for profit has destroyed what international conflict spared. Nowadays scientists in many fields don't publish enough in their papers to enable others to replicate the experiment. They publish only enough to let readers marvel at how much they were able to do. This is certainly true in computer science, where the source code for the programs reported on is usually secret.

It Does Not Matter How Sharing Is Restricted
============================================

I have been discussing the effects of preventing people from copying, changing and building on a program. I have not specified how this obstruction is carried out, because that doesn't affect the conclusion. Whether it is done by copy protection, or copyright, or licenses, or encryption, or ROM cards, or hardware serial numbers, if it *succeeds* in preventing use, it does harm.

Users do consider some of these methods more obnoxious than others. I suggest that the methods most hated are those that accomplish their objective.
Software Should be Free
========================

I have shown how ownership of a program—the power to restrict changing or copying it—is obstructive. Its negative effects are widespread and important. It follows that society shouldn't have owners for programs.

Another way to understand this is that what society needs is free software, and proprietary software is a poor substitute. Encouraging the substitute is not a rational way to get what we need.

Vaclav Havel has advised us to "Work for something because it is good, not just because it stands a chance to succeed." A business making proprietary software stands a chance of success in its own narrow terms, but it is not what is good for society.

Why People Will Develop Software
********************************

If we eliminate intellectual property as a means of encouraging people to develop software, at first less software will be developed, but that software will be more useful. It is not clear whether the overall delivered user satisfaction will be less; but if it is, or if we wish to increase it anyway, there are other ways to encourage development, just as there are ways besides toll booths to raise money for streets. Before I talk about how that can be done, first I want to question how much artificial encouragement is truly necessary.

Programming is Fun
===================

There are some lines of work that few will enter except for money; road construction, for example. There are other fields of study and art in which there is little chance to become rich, which people enter for their fascination or their perceived value to society. Examples include mathematical logic, classical music, and archaeology; and political organizing among working people. People compete, more sadly than bitterly, for the few funded positions available, none of which is funded very well. They may even pay for the chance to work in the field, if they can afford to.

Such a field can transform itself overnight if it begins to offer the possibility of getting rich. When one worker gets rich, others demand the same opportunity. Soon all may demand large sums of money for doing what they used to do for pleasure. When another couple of years go by, everyone connected with the field will deride the idea that work would be done in the field without large financial returns. They will advise
social planners to ensure that these returns are possible, prescribing special privileges, powers and monopolies as necessary to do so.

This change happened in the field of computer programming in the past decade. Fifteen years ago, there were articles on "computer addiction": users were "onlining" and had hundred-dollar-a-week habits. It was generally understood that people frequently loved programming enough to break up their marriages. Today, it is generally understood that no one would program except for a high rate of pay. People have forgotten what they knew fifteen years ago.

When it is true at a given time that most people will work in a certain field only for high pay, it need not remain true. The dynamic of change can run in reverse, if society provides an impetus. If we take away the possibility of great wealth, then after a while, when the people have readjusted their attitudes, they will once again be eager to work in the field for the joy of accomplishment.

The question, "How can we pay programmers?", becomes an easier question when we realize that it's not a matter of paying them a fortune. A mere living is easier to raise.

Funding Free Software

Institutions that pay programmers do not have to be software houses. Many other institutions already exist which can do this.

Hardware manufacturers find it essential to support software development even if they cannot control the use of the software. In 1970, much of their software was free because they did not consider restricting it. Today, their increasing willingness to join consortiums shows their realization that owning the software is not what is really important for them.

Universities conduct many programming projects. Today, they often sell the results, but in the 1970s, they did not. Is there any doubt that universities would develop free software if they were not allowed to sell software? These projects could be supported by the same government contracts and grants which now support proprietary software development.

It is common today for university researchers to get grants to develop a system, develop it nearly to the point of completion and call that "finished", and then start companies where they really finish the project and make it usable. Sometimes they declare the unfinished version "free"; if they are thoroughly corrupt, they instead get an exclusive license from the university. This is not a secret; it is
openly admitted by everyone concerned. Yet if the researchers were not exposed to the temptation to do these things, they would still do their research.

Programmers writing free software can make their living by selling services related to the software. I have been hired to port the GNU C compiler to new hardware, and to make user-interface extensions to GNU Emacs. (I offer these improvements to the public once they are done.) I also teach classes for which I am paid.

I am not alone in working this way; there is now a successful, growing corporation which does no other kind of work. Several other companies also provide commercial support for the free software of the GNU system. This is the beginning of the independent software support industry—an industry that could become quite large if free software becomes prevalent. It provides users with an option generally unavailable for proprietary software, except to the very wealthy.

New institutions such as the Free Software Foundation can also fund programmers. Most of the foundation's funds come from users buying tapes through the mail. The software on the tapes is free, which means that every user has the freedom to copy it and change it, but many nonetheless pay to get copies. (Recall that “free software” refers to freedom, not to price.) Some users order tapes who already have a copy, as a way of making a contribution they feel we deserve. The Foundation also receives sizable donations from computer manufacturers.

The Free Software Foundation is a charity, and its income is spent on hiring as many programmers as possible. If it had been set up as a business, distributing the same free software to the public for the same fee, it would now provide a very good living for its founder.

Because the Foundation is a charity, programmers often work for the Foundation for half of what they could make elsewhere. They do this because we are free of bureaucracy, and because they feel satisfaction in knowing that their work will not be obstructed from use. Most of all, they do it because programming is fun. In addition, volunteers have written many useful programs for us. (Recently even technical writers have begun to volunteer.)

This confirms that programming is among the most fascinating of all fields, along with music and art. We don't have to fear that no one will want to program.

What Do Users Owe to Developers?

There is a good reason for users of software to feel a moral
obligation to contribute to its support. Developers of free software are contributing to the users' activities, and it is both fair and in the long term interest of the users to give them funds to continue.

However, this does not apply to proprietary software developers, since obstructionism deserves a punishment rather than a reward.

We thus have a paradox: the developer of useful software is entitled to the support of the users, but any attempt to turn this moral obligation into a requirement destroys the basis for the obligation. A developer can either deserve a reward or demand it, but not both.

I believe that an ethical developer faced with this paradox must act so as to deserve the reward, but should also entreat the users for voluntary donations. Eventually the users will learn to support developers without coercion, just as they have learned to support public radio and television stations.

What Is Software Productivity?

If software were free, there would still be programmers, but perhaps fewer of them. Would this be bad for society?

Not necessarily. Today the advanced nations have fewer farmers than in 1900, but we do not think this is bad for society, because the few deliver more food to the consumers than the many used to do. We call this improved productivity. Free software would require far fewer programmers to satisfy the demand, because of increased software productivity at all levels:

* Wider use of each program that is developed.

* The ability to adapt existing programs for customization instead of starting from scratch.

* Better education of programmers.

* The elimination of duplicate development effort.

Those who object to cooperation because it would result in the employment of fewer programmers, are actually objecting to increased productivity. Yet these people usually accept the widely-held belief that the software industry needs increased productivity. How is this?

"Software productivity" can mean two different things: the overall productivity of all software development, or the productivity of individual projects. Overall productivity is what society would like to
improve, and the most straightforward way to do this is to eliminate the artificial obstacles to cooperation which reduce it. But researchers who study the field of "software productivity" focus only on the second, limited, sense of the term, where improvement requires difficult technological advances.

Is Competition Inevitable?
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Is it inevitable that people will try to compete, to surpass their rivals in society? Perhaps it is. But competition itself is not harmful; the harmful thing is *combat*.

There are many ways to compete. Competition can consist of trying to achieve ever more, to outdo what others have done. For example, in the old days, there was competition among programming wizards--competition for who could make the computer do the most amazing thing, or for who could make the shortest or fastest program for a given task. This kind of competition can benefit everyone, *as long as* the spirit of good sportsmanship is maintained.

Constructive competition is enough competition to motivate people to great efforts. A number of people are competing to be the first to have visited all the countries on Earth; some even spend fortunes trying to do this. But they do not bribe ship captains to strand their rivals on desert islands. They are content to let the best person win.

Competition becomes combat when the competitors begin trying to impede each other instead of advancing themselves--when "Let the best person win" gives way to "Let me win, best or not." Proprietary software is harmful, not because it is a form of competition, but because it is a form of combat among the citizens of our society.

Competition in business is not necessarily combat. For example, when two grocery stores compete, their entire effort is to improve their own operations, not to sabotage the rival. But this does not demonstrate a special commitment to business ethics; rather, there is little scope for combat in this line of business short of physical violence. Not all areas of business share this characteristic. Withholding information that could help everyone advance is a form of combat.

Business ideology does not prepare people to resist the temptation to combat the competition. Some forms of combat have been made banned with anti-trust laws, truth in advertising laws, and so on, but rather than generalizing this to a principled rejection of combat in general, executives invent other forms of combat which are not specifically prohibited. Society's resources are squandered on the economic equivalent of factional civil war.
"Why Don't You Move to Russia?"

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In the United States, any advocate of other than the most extreme form of laissez-faire selfishness has often heard this accusation. For example, it is leveled against the supporters of a national health care system, such as is found in all the other industrialized nations of the free world. It is leveled against the advocates of public support for the arts, also universal in advanced nations. The idea that citizens have any obligation to the public good is identified in America with Communism. But how similar are these ideas?

Communism as was practiced in the Soviet Union was a system of central control where all activity was regimented, supposedly for the common good, but actually for the sake of the members of the Communist party. And where copying equipment was closely guarded to prevent illegal copying.

The American system of intellectual property exercises central control over distribution of a program, and guards copying equipment with automatic copying protection schemes to prevent illegal copying.

By contrast, I am working to build a system where people are free to decide their own actions; in particular, free to help their neighbors, and free to alter and improve the tools which they use in their daily lives. A system based on voluntary cooperation, and decentralization.

Thus, if we are to judge views by their resemblance to Russian Communism, it is the software owners who are the Communists.

The Question of Premises

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I make the assumption in this paper that a user of software is no less important than an author, or even an author's employer. In other words, their interests and needs have equal weight, when we decide which course of action is best.

This premise is not universally accepted. Many maintain that an author's employer is fundamentally more important than anyone else. They say, for example, that the purpose of having owners of software is to give the author's employer the advantage he deserves--regardless of how this may affect the public.

It is no use trying to prove or disprove these premises. Proof requires shared premises. So most of what I have to say is addressed only to those who share the premises I use, or at least are interested
in what their consequences are. For those who believe that the owners are more important than everyone else, this paper is simply irrelevant.

But why would a large number of Americans accept a premise which elevates certain people in importance above everyone else? Partly because of the belief that this premise is part of the legal traditions of American society. Some people feel that doubting the premise means challenging the basis of society.

It is important for these people to know that this premise is not part of our legal tradition. It never has been.

Thus, the Constitution says that the purpose of copyright is to "promote the progress of science and the useful arts." The Supreme Court has elaborated on this, stating in `Fox Film vs. Doyal' that "The sole interest of the United States and the primary object in conferring the [copyright] monopoly lie in the general benefits derived by the public from the labors of authors."

We are not required to agree with the Constitution or the Supreme Court. (At one time, they both condoned slavery.) So their positions do not disprove the owner supremacy premise. But I hope that the awareness that this is a radical right-wing assumption rather than a traditionally recognized one will weaken its appeal.

Conclusion
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We like to think that our society encourages helping your neighbor; but each time we reward someone for obstructionism, or admire them for the wealth they have gained in this way, we are sending the opposite message.

Software hoarding is one form of our general willingness to disregard the welfare of society for personal gain. We can trace this disregard from Ronald Reagan to Jim Bakker, from Ivan Boesky to Exxon, from failing banks to failing schools. We can measure it with the size of the homeless population and the prison population. The antisocial spirit feeds on itself, because the more we see that other people will not help us, the more it seems futile to help them. Thus society decays into a jungle.

If we don't want to live in a jungle, we must change our attitudes. We must start sending the message that a good citizen is one who cooperates when appropriate, not one who is successful at taking from others. I hope that the free software movement will contribute to this: at least in one area, we will replace the jungle with a more efficient system which encourages and runs on voluntary cooperation.
--- Footnotes ---

1) The word "free" in "free software" refers to freedom, not to price; the price paid for a copy of a free program may be zero, or small, or (rarely) quite large.

2) The issues of pollution and traffic congestion do not alter this conclusion. If we wish to make driving more expensive to discourage driving in general, it is disadvantageous to do this using toll booths, which contribute to both pollution and congestion. A tax on gasoline is much better. Likewise, a desire to enhance safety by limiting maximum speed is not relevant; a free access road enhances the average speed by avoiding stops and delays, for any given speed limit.

3) One might regard a particular computer program as a harmful thing that should not be available at all, like the Lotus Marketplace database of personal information, which was withdrawn from sale due to public disapproval. Most of what I say does not apply to this case, but it makes little sense to argue for having an owner on the grounds that the owner will make the program less available. The owner will not make it *completely* unavailable, as one would wish in the case of a program whose use is considered destructive.

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1.564.1 Available under license:

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Additional -

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File: PSReadLine

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https://github.com/lzybkr/PSReadLine

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File:  Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PackageManagement
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cf2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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1.576 libcurl 7.29.0-54.el7

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1.577 spring-beans 5.1.3.RELEASE

1.578 slf4j-api 1.2

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Mon Aug 17 10:11:49 PDT 2020 Martin Fujitani <martinf@cisco.com>

1.582 dosfs-tools 3.0.20-10.el7
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1.587 at 3.1.13 24.el7

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<ig25@rz.uni-karlsruhe.de>, taken over and re-packaged first by Martin
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and then taken over by Ryan Murray <rmurray@debian.org>.

In August 2009 the upstream development and Debian packaging were taken over
by Ansgar Burchardt <ansgar@debian.org> and Cyril Brulebois <kibi@debian.org>.

This may be considered the experimental upstream source, and since there
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1.588 zlib 1.2.8

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Additional -

File: PSReadLine

https://github.com/Izybkr/PSReadLine

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----------------------------------------------
File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PackageManagement
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Network Working Group    H. Krawczyk
Request for Comments: 2104  IBM
Category: Informational    M. Bellare
          R. Canetti
          IBM
          February 1997

          HMAC: Keyed-Hashing for Message Authentication

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File: PSReadLine
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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PowerShell 6.0

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size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---
#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)
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 */

Initialize empty image
f1c9645db14efdc7d8a32265f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2d0f5067c18f2cf9 bsd.img
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

Create 2st primary partition
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img

Create default BSD
2e1cee529cb59e9341afe0443f196a1 bsd.img
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start   end      size     fstype   [fsise bsize cpg]
c:  4096  20479   16384     unused  0  0
  d:  0  16064   16065     unused  0  0

BSD disklabel command (m for help):
Command (m for help):
-------------------
b5c121c2091b2ff26b880551feac7112 bsd.img

 ---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start   end      size     fstype   [fsise bsize cpg]
a:  4096  6144   2049     4.2BSD  0  0  0
  c:  4096  20479   16384     unused  0  0
  d:  0  16064   16065     unused  0  0

BSD disklabel command (m for help):
Command (m for help):
-------------------
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0  unused     5  4.1BSD     9  4.4LFS  d boot
1 swap 6 Eighth Edition a unknown e ADOS
2 Version 6 7 4.2BSD b HPFS f HFS
3 Version 7 8 MS-DOS c ISO-9660 10 AdvFS
4 System V

BSD disklabel command (m for help):

1.608 libssss-nss-idmap 1.16.2 13.el7
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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procs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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* /opt/ws_local/PERMITS_SQL/1070866703_1594760478.25/0/java-1-4-1-sources.jar/com/contentstack/sdk/ContentstackResultCallback.java
* /opt/ws_local/PERMITS_SQL/1070866703_1594760478.25/0/java-1-4-1-sources.jar/com/contentstack/sdk/IRequestModelHTTP.java
* /opt/ws_local/PERMITS_SQL/1070866703_1594760478.25/0/java-1-4-1-sources.jar/com/contentstack/sdk/ContentstackResultCallback.java
* /opt/ws_local/PERMITS_SQL/1070866703_1594760478.25/0/java-1-4-1-sources.jar/com/contentstack/sdk/ResultCallBack.java
* /opt/ws_local/PERMITS_SQL/1070866703_1594760478.25/0/java-1-4-1-sources.jar/com/contentstack/sdk/ContentTypeModel.java
* /opt/ws_local/PERMITS_SQL/1070866703_1594760478.25/0/java-1-4-1-sources.jar/com/contentstack/sdk/ResponseType.java
* /opt/ws_local/PERMITS_SQL/1070866703_1594760478.25/0/java-1-4-1-sources.jar/com/contentstack/sdk/EntryResultCallBack.java
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* /opt/ws_local/PERMITS_SQL/1070866703_1594760478.25/0/java-1-4-1-sources-jar/com/contentstack/sdk/utility/CSController.java
* /opt/ws_local/PERMITS_SQL/1070866703_1594760478.25/0/java-1-4-1-sources-jar/com/contentstack/sdk/utility/CSAppConstants.java
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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.628 httpclient-cache 4.1.1

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o libdnet: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP_MODIFICATIONS.
   http://code.google.com/p/libdnet/
o PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library. Distributed with Nmap in the libpcre subdirectory.
   http://www.pcre.org/
o liblua: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive.
   http://www.lua.org/
o OpenSSL: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the --without-openssl
configuration directive.
http://www.openssl.org/

- **LIBLINEAR.** Used for IPv6 OS classification.
  http://www.csie.ntu.edu.tw/~cjlin/liblinear/
- **libsvn.** The Subversion library, used by the updater program

On Windows only, Nmap uses:

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- **Python.** The binary distributions of Nmap include a Python interpreter
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Written by: Philip Hazel
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1.633 jetty-util 9.4.10.v20180503

1.634 sos 3.5 6.el7

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1.635 krb5-libs 1.15.1 46.el7

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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
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lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
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the following new or changed files:

```
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplg.c
```

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1.640 hibernate-ehcache 5.3.7.Final

1.641 spring-test 5.1.3.RELEASE

1.642 containerd io 1.2.6-3.3.el7
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      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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The basic library functions are written in C and are freestanding. Also
included in the distribution is a set of C++ wrapper functions.

THE BASIC LIBRARY FUNCTIONS
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Written by: Philip Hazel
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Email domain: cam.ac.uk

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

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  http://code.google.com/p/libdnet/
- PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library. Distributed with Nmap in the libpcre subdirectory.
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- OpenSSL: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the --without-openssl configuration directive.
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
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1.664 perl-data-dumper 2.145 3.el7

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Mon Aug 17 10:11:49 PDT 2020 Martin Fujitani <martinf@cisco.com>

1.666 icu 50.1.2-17.el7
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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

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

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

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

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

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $"
@$($(SHELL)) -ec "$(GEN_DEPS.c) $< \n | sed \"s/\($(^*)\).o\: \([^]*\)\(^*\)./\1.o $@ : /g\" > $@;"
## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@

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

## End FreeBSD-specific setup

### 1.667 mksh 46 8.el7

**1.667.1 Available under license:**

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License: MirOS and ISC and BSD

mksh is the MirBSD enhanced version of the Public Domain Korn shell (pdksh), found in path(s):

* /opt/ws_local/PERMITS_SQL/1019734819_1591905547.29/0/mksh-46-8.el7.src.rpm-cosi-expand-archive-DeEhvijjM/mksh.spec

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

```
" $MirOS: src/bin/mksh/mksh.1,v 1.315 2013/05/02 21:59:50 tg Exp $
" $OpenBSD: ksh.1,v 1.146 2013/03/18 11:10:52 mpi Exp $
"- 
")Thorsten Glaser <tg@mirbsd.org> 
" 
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" implied; without malicious intent or gross negligence. In no event 
" may a licensor, author or contributor be held liable for indirect,
```
Try to make GNU groff and AT&T nroff more compatible
- ` generates ' in gnroff, so use \
- * generates ` in gnroff, \ generates `, so use \*(aq
- * @ generates _ in gnroff, \ generates , so .tr it to -
- thus use - for hyphens and \- for minus signs and option dashes
- * ~ is size-reduced and placed atop in gnroff, so use \*(TI
- * ^ is size-reduced and placed atop in gnroff, so use \*(ha
- \(en does not work in nroff, so use \*(en
- * <>| are problematic, so redefine and use \*(Lt\*(Gt\*(Ba
- Also make sure to use \& especially with two-letter words.
- The section after the "doc" macropackage has been loaded contains
- additional code to convene between the UCB mdoc macropackage (and
- its variant as BSD mdoc in groff) and the GNU mdoc macropackage.
- Implement .Dd with the Mdocdate RCS keyword
- .Dd must come before definition of .Mx, because when called
- with -mandoc, it might implement .Mx itself, but we want to
- use our own definition. And .Dd must come *first*, always.
- Check which macro package we use, and do other -mdoc setup.
- Implement .Mx (MirBSD)
- long integer ,
- Charles Forsyth, author of the (Public Domain) Bourne Shell clone,
- which mksh is derived from, agreed to the following:
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- general public to deal in the work without restriction and permis-
- sion to sublicence derivates under the terms of any (OSI approved)
- Open Source licence.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1019734819_1591905547.29/0/mksh-46-8.el7.src.rpm-cosi-expand-archive-
DeEhvjpM/mksh-R46.tgz-cosi-expand-archive-Fyl7x3yP/mksh/mksh.1
No license file was found, but licenses were detected in source scan.

/*-
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 * Copyright (c) 1998 Todd C. Miller <Todd.Miller@courtesan.com>
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 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1019734819_1591905547.29/0/mksh-46-8.el7.src.rpm-cosi-expand-archive-
DeEhvjpM/mksh-R46.tgz-cosi-expand-archive-Fyl7x3yP/mksh/strlcpy.c
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/*-
 * Markus Kuhn -- 2007-05-26 (Unicode 5.0)
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 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1019734819_1591905547.29/0/mksh-46-8.el7.src.rpm-cosi-expand-archive-
DeEhvjpM/mksh-R46.tgz-cosi-expand-archive-Fyl7x3yP/mksh/expr.c

1.668 elfutils 0.172 2.el7
1.668.1 Available under license:
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Additional -
File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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metrics from the pseudo-filesystem proc.

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Gocheck - A rich testing framework for Go

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=head1 NAME

Pod::Simple::Methody -- turn Pod::Simple events into method calls

=head1 SYNOPSIS

require 5;
use strict;
package SomePodFormatter;
use base qw(Pod::Simple::Methody);

sub handle_text { 
    my($self, $text) = @_; 
    ...
}

sub start_head1 { 
    my($self, $attrs) = @_; 
    ...
}

sub end_head1 { 
    my($self) = @_; 
    ...
}

...and start_/end_ methods for whatever other events you want to catch.
=head1 DESCRIPTION

This class is of interest to people writing Pod formatters based on Pod::Simple.

This class (which is very small -- read the source) overrides Pod::Simple's
_handle_element_start, _handle_text, and _handle_element_end methods so that parser events are turned into method
calls. (Otherwise, this is a subclass of L<Pod::Simple> and inherits all its methods.)

You can use this class as the base class for a Pod formatter/processor.

=head1 METHOD CALLING

When Pod::Simple sees a "=head1 Hi there", for example, it basically does this:

$parser->_handle_element_start( "head1", \%attributes );
$parser->_handle_text( "Hi there" );
$parser->_handle_element_end( "head1" );

But if you subclass Pod::Simple::Methody, it will instead do this when it sees a "=head1 Hi there":

$parser->start_head1( \%attributes ) if $parser->can('start_head1');
$parser->handle_text( "Hi there" )  if $parser->can('handle_text');
$parser->end_head1()              if $parser->can('end_head1');

If Pod::Simple sends an event where the element name has a dash, period, or colon, the corresponding method name will have a underscore in its place. For example, "foo.bar:baz" becomes start_foo_bar_baz and end_foo_bar_baz.

See the source for Pod::Simple::Text for an example of using this class.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Subclassing>

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sub dump { ']' . _esc( @{ $_[0] } ) . ']' }

# JUNK:

sub _esc {
    return "" unless @_;  
    my @out;
    foreach my $in (@_) {
        push @out, "," . $in . "";
        $out[-1] =~ s/[^- ~/.\Iran\{|\}]{}/\x{%X}/eg;
        /eg;
    }  
    return join ', ', @out;
}

__END__

=head1 NAME

Pod::Simple::PullParserToken -- tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

Given a $parser that's an object of class Pod::Simple::PullParser
(or a subclass)...

while(my $token = $parser->get_token) {
    $DEBUG and print "Token: ", $token->dump, "\n";
    if($token->is_start) {
        ...access $token->tagname, $token->attr, etc...

    } elsif($token->is_text) {
...access $token->text, $token->text_r, etc...

} elsif($token->is_end) {
...access $token->tagname...

}

(Also see L<Pod::Simple::PullParser>)

=head1 DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser>, you should get an object of a subclass of Pod::Simple::PullParserToken.

Subclasses will add methods, and will also inherit these methods:

=over

=item $token->type

This returns the type of the token. This will be either the string "start", the string "text", or the string "end".

Once you know what the type of an object is, you then know what subclass it belongs to, and therefore what methods it supports.

Yes, you could probably do the same thing with code like $token->isa('Pod::Simple::PullParserEndToken'), but that's not so pretty as using just $token->type, or even the following shortcuts:

=item $token->is_start

This is a shortcut for C<< $token->type() eq "start" >>

=item $token->is_text

This is a shortcut for C<< $token->type() eq "text" >>

=item $token->is_end

This is a shortcut for C<< $token->type() eq "end" >>

=item $token->dump

This returns a handy stringified value of this object. This is useful for debugging, as in:
while(my $token = $parser->get_token) {
    $DEBUG and print "Token: ", $token->dump, "\n";
    ...
}

=head1 SEE ALSO

My subclasses:
L<Pod::Simple::PullParserStartToken>,
L<Pod::Simple::PullParserTextToken>, and
L<Pod::Simple::PullParserEndToken>.

L<Pod::Simple::PullParser> and L<Pod::Simple>

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=head1 NAME

Pod::Simple::Debug -- put Pod::Simple into trace/debug mode

=head1 SYNOPSIS

use Pod::Simple::Debug (5);  # or some integer

Or:
my $debuglevel;
use Pod::Simple::Debug ($debuglevel, 0);
...some stuff that uses Pod::Simple to do stuff, but which
you don’t want debug output from...

$debug_level = 4;
...some stuff that uses Pod::Simple to do stuff, but which
you DO want debug output from...

$debug_level = 0;

=head1 DESCRIPTION

This is an internal module for controlling the debug level (a.k.a. trace
level) of Pod::Simple. This is of interest only to Pod::Simple
developers.

=head1 CAVEATS

Note that you should load this module I<before> loading Pod::Simple (or
any Pod::Simple-based class). If you try loading Pod::Simple::Debug
after &Pod::Simple::DEBUG is already defined, Pod::Simple::Debug will
throw a fatal error to the effect that
"it's s too late to call Pod::Simple::Debug".

Note that the C<use Pod::Simple::Debug ($x, I<somenum>>)> mode will make
Pod::Simple (et al) run rather slower, since &Pod::Simple::DEBUG won’t
be a constant sub anymore, and so Pod::Simple (et al) won’t compile with
constant-folding.

=head1 GUTS

Doing this:

use Pod::Simple::Debug (5);  # or some integer

is basically equivalent to:

BEGIN { sub Pod::Simple::DEBUG () {5} }  # or some integer
use Pod::Simple ();

And this:

use Pod::Simple::Debug ($debug_level,0);  # or some integer

is basically equivalent to this:
my $debug_level;
BEGIN { $debug_level = 0 }
BEGIN { sub Pod::Simple::DEBUG () { $debug_level }
use Pod::Simple ();

=head1 SEE ALSO

L<Pod::Simple>


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=head1 AUTHOR

Sean M. Burke C<sburke@cpan.org>

=cut

Found in path(s):
  * /opt/ws_local/PERMITS_SQL/1078070235_1597834451.33/0/pod-simple-3-01-zip/pod-simple-3.01/lib/Pod/Simple/Debug.pm

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

=head1 NAME

Pod::Simple::XMLOutStream -- turn Pod into XML

=head1 SYNOPSIS

perl -MPod::Simple::XMLOutStream -e \n  "exit Pod::Simple::XMLOutStream->filter(shift)->any_errata_seen" \n  thingy.pod

=head1 DESCRIPTION

Pod::Simple::XMLOutStream is a subclass of L<Pod::Simple> that parses
Pod and turns it into XML.

Pod::Simple::XMLOutStream inherits methods from L<Pod::Simple>.

=head1 SEE ALSO

L<Pod::Simple::DumpAsXML> is rather like this class; see its documentation for a discussion of the differences.

L<Pod::Simple>, L<Pod::Simple::DumpAsXML>, L<Pod::SAX>

L<Pod::Simple::Subclassing>

The older (and possibly obsolete) libraries L<Pod::PXML>, L<Pod::XML>

=head1 ABOUT EXTENDING POD

TODO: An example or two of =extend, then point to Pod::Simple::Subclassing

=head1 ASK ME!

If you actually want to use Pod as a format that you want to render to XML (particularly if to an XML instance with more elements than normal Pod has), please email me (C<sburke@cpan.org>) and I'll probably have some recommendations.

For reasons of concision and energetic laziness, some methods and options in this module (and the dozen modules it depends on) are undocumented; but one of those undocumented bits might be just what you're looking for.

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=head1 AUTHOR
=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1078070235_1597834451.33/0/pod-simple-3-01-zip/pod-simple-3.01/lib/Pod/Simple/XMLOutStream.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::PullParserStartToken -- start-tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

(See L<Pod::Simple::PullParser>)

=head1 DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser> object, you might get an object of this class.

This is a subclass of L<Pod::Simple::PullParserToken> and inherits all its methods, and adds these methods:

=over

=item $token->tagname

This returns the tagname for this start-token object. For example, parsing a "=head1 ..." line will give you a start-token with the tagname of "head1", token(s) for its content, and then an end-token with the tagname of "head1".

=item $token->tagname(I<somestring>)

This changes the tagname for this start-token object. You probably won't need to do this.

=item $token->tag(...)

A shortcut for $token->tagname(...) 

=item $token->is_tag(I<somestring>) or $token->is_tagname(I<somestring>)

These are shortcuts for C<< $token->tag() eq I<somestring> >>
=item $token->attr(I<attrname>)

This returns the value of the I<attrname> attribute for this start-token object, or undef.

For example, parsing a LZ)<<Foo/"Bar">> link will produce a start-token with a "to" attribute with the value "Foo", a "type" attribute with the value "pod", and a "section" attribute with the value "Bar".

=item $token->attr(I<attrname>, I<newvalue>)

This sets the I<attrname> attribute for this start-token object to I<newvalue>. You probably won't need to do this.

=back

You're unlikely to ever need to construct an object of this class for yourself, but if you want to, call

C<<
Pod::Simple::PullParserStartToken->new( I<tagname>, I<attrhash> )
>>

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

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=head1 AUTHOR

Sean M. Burke C<sburke@cpan.org>
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::PullParserTextToken -- text-tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

(See L<Pod::Simple::PullParser>)

=head1 DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser>, you might get an object of this class.

This is a subclass of L<Pod::Simple::PullParserToken> and inherits all its methods, and adds these methods:

=item $token->text

This returns the text that this token holds. For example, parsing CZ<<foo>> will return a C start-token, a text-token, and a C end-token. And if you want to get the "foo" out of the text-token, call C<< $token->text >>

=item $token->text(I<somestring>)

This changes the string that this token holds. You probably won't need to do this.

=item $token->text_r()

This returns a scalar reference to the string that this token holds. This can be useful if you don't want to memory-copy the potentially large text value (well, as large as a paragraph or a verbatim block) as calling $token->text would do.

Or, if you want to alter the value, you can even do things like this:

for ( @{$token->text_r} ) { #Aliases it with $_[!] }
s/ The / the /g; # just for example

if( 'A' eq chr(65) ) {  # (if in an ASCII world)
  tr/\xA0/ /;
  tr/\xAD//d;
}

...or however you want to alter the value...

=back

You're unlikely to ever need to construct an object of this class for
yourself, but if you want to, call
C<<
Pod::Simple::PullParserTextToken->new( I<text> )
>>

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

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merchantability or fitness for a particular purpose.

=head1 AUTHOR

Sean M. Burke C<sburke@cpan.org>

=cut

Found in path(s):
  * /opt/ws_local/PERMITS_SQL/1078070235_1597834451.33/0/pod-simple-3-01-zip/pod-simple-3.01/lib/Pod/Simple/PullParserTextToken.pm
No license file was found, but licenses were detected in source scan.

NAME
perfaq3 - Programming Tools ($Revision: 1.38 $, $Date: 1999/05/23 16:08:30 $)

DESCRIPTION
This section of the FAQ answers questions related to programmer tools and programming support.
How do I do (anything)?
Have you looked at CPAN (see perlfaq2)? The chances are that someone has already written a module that can solve your problem. Have you read the appropriate man pages? Here's a brief index:

- Basics: perldata, perlvar, perlsyn, perlop, perlsub
- Execution: perlrn, perldebug
- Functions: perlfunc
- Objects: perlref, perlmod, perlobj, perltie
- Data Structures: perlref, perllool, perldsc
- Modules: perlmod, perlmodlib, perlsun
- Regexes: perlre, perlfunc, perllool, perllnocal
- Moving to perl5: perltrap, perl
- Linking w/C: perlxstut, perlx, percall, perlgsuts, perlrembed

(not a man-page but still useful)

A crude table of contents for the Perl man page set is found in perlto.

How can I use Perl interactively?
The typical approach uses the Perl debugger, described in the perldebug(1) man page, on an "empty" program, like this:

```
perl -de 42
```

Now just type in any legal Perl code, and it will be immediately evaluated. You can also examine the symbol table, get stack backtraces, check variable values, set breakpoints, and other operations typically found in symbolic debuggers.

Is there a Perl shell?
In general, no. The Shell.pm module (distributed with Perl) makes Perl try commands which aren't part of the Perl language as shell commands. perlsh from the source distribution is simplistic and uninteresting, but may still be what you want.

How do I debug my Perl programs?
Have you tried use warnings or used -w? They enable warnings to detect dubious practices.
Have you tried use strict? It prevents you from using symbolic references, makes you predeclare any subroutines that you call as bare words, and (probably most importantly) forces you to predeclare your variables with my, our, or use vars.
Did you check the return values of each and every system call? The operating system (and thus Perl) tells you whether they worked, and if not why.

```
open(FH, "> /etc/cantwrite")
```

or die "Could'n write to /etc/cantwrite: $!
"

Did you read perltrap? It's full of gotchas for old and new Perl programmers and even has sections for those of you who are upgrading from languages like awk and C.

Have you tried the Perl debugger, described in perlddebug? You can step through your program and see what it's doing and thus work out why what it's doing isn't what it should be doing.

How do I profile my Perl programs?
You should get the Devel::DProf module from the standard distribution (or separately on CPAN) and also use Benchmark.pm from the standard distribution. The Benchmark module lets you time specific portions of your code, while Devel::DProf gives detailed breakdowns of where your code spends its time.

Here's a sample use of Benchmark:

```
use Benchmark;
@junk = `cat /etc/motd`;
$count = 10_000;
timethese($count, {
```
This is what it prints (on one machine--your results will be dependent on your hardware, operating system, and the load on your machine):
    Benchmark: timing 10000 iterations of for, map...
          for:  4 secs ( 3.97 usr  0.01 sys =  3.98 cpu)
          map:  6 secs ( 4.97 usr  0.00 sys =  4.97 cpu)
Be aware that a good benchmark is very hard to write. It only tests the data you give it and proves little about the differing complexities of contrasting algorithms.
How do I cross-reference my Perl programs?
The B::Xref module, shipped with the new, alpha-release Perl compiler (not the general distribution prior to the 5.005 release), can be used to generate cross-reference reports for Perl programs.
perl -MO=Xref[,OPTIONS] scriptname.plx
Is there a pretty-printer (formatter) for Perl?
There is no program that will reformat Perl as much as indent(1) does for C. The complex feedback between the scanner and the parser (this feedback is what confuses the vgrind and emacs programs) makes it challenging at best to write a stand-alone Perl parser.
Of course, if you simply follow the guidelines in perlstyle, you shouldn't need to reformat. The habit of formatting your code as you write it will help prevent bugs. Your editor can and should help you with this. The perl-mode or newer cperl-mode for emacs can provide remarkable amounts of help with most (but not all) code, and even less programmable editors can provide significant assistance. Tom swears by the following settings in vi and its clones:
set ai sw=4
map! ^O [{^M}]^[O^T
Now put that in your .exrc file (replacing the caret characters with control characters) and away you go. In insert mode, ^T is for indenting, ^D is for undenting, and ^O is for blockdenting-- as it were. If you haven't used the last one, you're missing a lot. A more complete example, with comments, can be found at http://www.perl.com/CPAN-local/authors/id/TOMC/scripts/toms.exrc.gz
If you are used to using the vgrind program for printing out nice code to a laser printer, you can take a stab at this using http://www.perl.com/CPAN/doc/misc/tips/working.vgrind.entry, but the results are not particularly satisfying for sophisticated code.
The a2ps at http://www.infres.enst.fr/~demaille/a2ps/ does lots of things related to generating nicely printed output of documents.
Is there a tags for Perl?
There's a simple one at http://www.perl.com/CPAN/authors/id/TOMC/scripts/ptags.gz which may do the trick. And if not, it's easy to hack into what you want.
Is there an IDE or Windows Perl Editor?
Perl programs are just plain text, so any editor will do.
If you're on Unix, you already have an IDE--Unix itself. The UNIX philosophy is the philosophy of several small tools that each do one thing and do it well. It's like a carpenter's toolbox.
If you want a Windows IDE, check the following:
CodeMagicCD
ActiveState's cross-platform, multi-language IDE has Perl support, including a regular expression debugger and remote debugging (http://www.ActiveState.com/Products/Komodo/index.html). (Visual Perl, a Visual Studio.NET plug-in is currently (early 2001) in beta (http://www.ActiveState.com/Products/VisualPerl/index.html)).

The Object System (http://www.castlelink.co.uk/object_system/) is a Perl web applications development IDE.

PerlBuilder (http://www.solutionsoft.com/perl1.htm) is an integrated development environment for Windows that supports Perl development.

Perl code magic (http://www.petes-place.com/codemagic.html).

visiPerl+ http://helpconsulting.net/visiperl/, from Help Consulting.

For editors: if you're on Unix you probably have vi or a vi clone already, and possibly an emacs too, so you may not need to download anything. In any emacs the cperl-mode (M-x cperl-mode) gives you perhaps the best available Perl editing mode in any editor.

For Windows editors: you can download an Emacs

GNU Emacs http://www.gnu.org/software/emacs/windows/ntemacs.html

MicroEMACS http://members.nbci.com/uemacs/

XEmacs http://www.xemacs.org/Download/index.html

or a vi clone such as Elvis


Vile http://vile.cx/

Vim http://www.vim.org/

win32: http://www.cs.vu.nl/%7Etmgil/vi.html


nvi (http://www.bostic.com/vi/, available from CPAN in src/misc/) is yet another vi clone, unfortunately not available for Windows, but in UNIX platforms you might be interested in trying it out, firstly because strictly speaking it is not a vi clone, it is the real vi, or the new incarnation of it, and secondly because you can embed Perl inside it to use Perl as the scripting language. nvi is not alone in this, though: at least also vim and vile offer an embedded Perl.

The following are Win32 multilanguage editor/IDESs that support Perl:

Codewright http://www.starbase.com/


SlickEdit http://www.slickedit.com/

There is also a toyedit Text widget based editor written in Perl that is distributed with the Tk module on CPAN. The ptkdb (http://world.std.com/~aep/ptkdb/) is a Perl/tk based debugger that acts as a development environment of sorts. Perl Composer (http://perlcomposer.sourceforge.net/vperl.html) is an IDE for Perl/Tk GUI creation.
In addition to an editor/IDE you might be interested in a more powerful shell environment for Win32. Your options include
- **Bash** from the Cygwin package (http://sources.redhat.com/cygwin/)
- **Ksh** from the MKS Toolkit (http://www.mks.com/), or the Bourne shell of the U/WIN environment (http://www.research.att.com/sw/tools/uwin/)
- **Zsh** ftp://ftp.blarg.net/users/amol/zsh/, see also http://www.zsh.org/

MKS and U/WIN are commercial (U/WIN is free for educational and research purposes). Cygwin is covered by the GNU Public License (but that shouldn't matter for Perl use). The Cygwin, MKS, and U/WIN all contain (in addition to the shells) a comprehensive set of standard UNIX toolkit utilities.

If you're transferring text files between Unix and Windows using FTP be sure to transfer them in ASCII mode so the ends of lines are appropriately converted.

On Mac OS the MacPerl Application comes with a simple 32k text editor that behaves like a rudimentary IDE. In contrast to the MacPerl Application the MPW Perl tool can make use of the MPW Shell itself as an editor (with no 32k limit).

**BBEdit** and **BBEdit Lite** are text editors for Mac OS that have a Perl sensitivity mode (http://web.barebones.com/).

**Alpha** is an editor, written and extensible in Tcl, that nonetheless has built in support for several popular markup and programming languages including Perl and HTML (http://alpha.olm.net/).

**Pepper** and **Pe** are programming language sensitive text editors for Mac OS X and BeOS respectively (http://www.hekkelman.com/).

Where can I get Perl macros for vi?

For a complete version of Tom Christiansen's vi configuration file, see http://www perl com/CPAN/authors/Tom_Christiansen/scripts/toms.exrc.gz, the standard benchmark file for vi emulators. The file runs best with nvi, the current version of vi out of Berkeley, which incidentally can be built with an embedded Perl interpreter--see http://www perl com/CPAN/src/misc.

Where can I get perl-mode for emacs?

Since Emacs version 19 patchlevel 22 or so, there have been both a perl-mode.el and support for the Perl debugger built in. These should come with the standard Emacs 19 distribution.

In the Perl source directory, you'll find a directory called "emacs", which contains a cperl-mode that color-codes keywords, provides context-sensitive help, and other nifty things.

Note that the perl-mode of emacs will have fits with "main'foo" (single quote), and mess up the indentation and highlighting. You are probably using "main::foo" in new Perl code anyway, so this shouldn't be an issue.

How can I use curses with Perl?

The Curses module from CPAN provides a dynamically loadable object module interface to a curses library. A small demo can be found at the directory http://www.perl.com/CPAN/authors/Tom_Christiansen/scripts/rep; this program repeats a command and updates the screen as needed, rendering rep ps axu similar to top.

How can I use X or Tk with Perl?

Tk is a completely Perl-based, object-oriented interface to the Tk toolkit that doesn't force you to use Tcl just to get at Tk. Sx is an interface to the Athena Widget set. Both are available from CPAN. See the directory http://www.perl.com/CPAN/modules/by-category/08_User_Interfaces/

Invaluable for Perl/Tk programming are the Perl/Tk FAQ at http://w4.lns.cornell.edu/%7Epvhp/ptk/ptkTOC.html, the Perl/Tk Reference Guide available at http://www.perl.com/CPAN-local/authors/Stephen_O_Lidie/, and the

How can I generate simple menus without using CGI or Tk?
The http://www.perl.com/CPAN/authors/id/SKUNZ/perlmenu.v4.0.tar.gz module, which is curses-based, can help with this.

What is undump?
See the next question on "How can I make my Perl program run faster?"

How can I make my Perl program run faster?
The best way to do this is to come up with a better algorithm. This can often make a dramatic difference. Jon Bentley's book "Programming Pearls" (that's not a misspelling!) has some good tips on optimization, too. Advice on benchmarking boils down to: benchmark and profile to make sure you're optimizing the right part, look for better algorithms instead of microtuning your code, and when all else fails consider just buying faster hardware.

A different approach is to autoload seldom-used Perl code. See the AutoSplit and AutoLoader modules in the standard distribution for that. Or you could locate the bottleneck and think about writing just that part in C, the way we used to take bottlenecks in C code and write them in assembler. Similar to rewriting in C, modules that have critical sections can be written in C (for instance, the PDL module from CPAN).

In some cases, it may be worth it to use the backend compiler to produce byte code (saving compilation time) or compile into C, which will certainly save compilation time and sometimes a small amount (but not much) execution time. See the question about compiling your Perl programs for more on the compiler--the wins aren't as obvious as you'd hope.

If you're currently linking your perl executable to a shared libc.so, you can often gain a 10-25% performance benefit by rebuilding it to link with a static libc.a instead. This will make a bigger perl executable, but your Perl programs (and programmers) may thank you for it. See the INSTALL file in the source distribution for more information.

Unsubstantiated reports allege that Perl interpreters that use sfio outperform those that don't (for I/O intensive applications). To try this, see the INSTALL file in the source distribution, especially the "Selecting File I/O mechanisms" section.

The undump program was an old attempt to speed up your Perl program by storing the already-compiled form to disk. This is no longer a viable option, as it only worked on a few architectures, and wasn't a good solution anyway.

How can I make my Perl program take less memory?
When it comes to time-space tradeoffs, Perl nearly always prefers to throw memory at a problem. Scalars in Perl use more memory than strings in C, arrays take more than that, and hashes use even more. While there's still a lot to be done, recent releases have been addressing these issues. For example, as of 5.004, duplicate hash keys are shared amongst all hashes using them, so require no reallocation.

In some cases, using substr() or vec() to simulate arrays can be highly beneficial. For example, an array of a thousand booleans will take at least 20,000 bytes of space, but it can be turned into one 125-byte bit vector--a considerable memory savings. The standard Tie::SubstrHash module can also help for certain types of data structure. If you're working with specialist data structures (matrices, for instance) modules that implement these in C may use less memory than equivalent Perl modules.

Another thing to try is learning whether your Perl was compiled with the system malloc or with Perl's builtin malloc. Whichever one it is, try using the other one and see whether this makes a difference. Information about malloc is in the INSTALL file in the source distribution. You can find out whether you are using perl's malloc by typing perl -V:usemymalloc.

Is it unsafe to return a pointer to local data?
No, Perl's garbage collection system takes care of this.

```perl
sub makeone {
    my @a = ( 1 .. 10 );
    return \@a;
}
for $i ( 1 .. 10 ) {
```
How can I free an array or hash so my program shrinks?

You can't. On most operating systems, memory allocated to a program can never be returned to the system. That's why long-running programs sometimes re-exec themselves. Some operating systems (notably, FreeBSD and Linux) allegedly reclaim large chunks of memory that is no longer used, but it doesn't appear to happen with Perl (yet). The Mac appears to be the only platform that will reliably (albeit, slowly) return memory to the OS.

We've had reports that on Linux (Redhat 5.1) on Intel, undef $scalar will return memory to the system, while on Solaris 2.6 it won't. In general, try it yourself and see.

However, judicious use of my() on your variables will help make sure that they go out of scope so that Perl can free up that space for use in other parts of your program. A global variable, of course, never goes out of scope, so you can't get its space automatically reclaimed, although undef()ing and/or delete()ing it will achieve the same effect. In general, memory allocation and de-allocation isn't something you can or should be worrying about much in Perl, but even this capability (preallocation of data types) is in the works.

How can I make my CGI script more efficient?

Beyond the normal measures described to make general Perl programs faster or smaller, a CGI program has additional issues. It may be run several times per second. Given that each time it runs it will need to be re-compiled and will often allocate a megabyte or more of system memory, this can be a killer. Compiling into C isn't going to help you because the process start-up overhead is where the bottleneck is.

There are two popular ways to avoid this overhead. One solution involves running the Apache HTTP server (available from http://www.apache.org/) with either of the mod_perl or mod_fastcgi plugin modules.

With mod_perl and the Apache::Registry module (distributed with mod_perl), httpd will run with an embedded Perl interpreter which pre-compiles your script and then executes it within the same address space without forking. The Apache extension also gives Perl access to the internal server API, so modules written in Perl can do just about anything a module written in C can. For more on mod_perl, see http://perl.apache.org/

With the FCGI module (from CPAN) and the mod_fastcgi module (available from http://www.fastcgi.com/) each of your Perl programs becomes a permanent CGI daemon process.

Both of these solutions can have far-reaching effects on your system and on the way you write your CGI programs, so investigate them with care.


A non-free, commercial product, "The Velocity Engine for Perl", (http://www.binevolve.com/ or http://www.binevolve.com/velocigen/ ) might also be worth looking at. It will allow you to increase the performance of your Perl programs, running programs up to 25 times faster than normal CGI Perl when running in persistent Perl mode or 4 to 5 times faster without any modification to your existing CGI programs. Fully functional evaluation copies are available from the web site.

How can I hide the source for my Perl program?

Delete it. :-) Seriously, there are a number of (mostly unsatisfactory) solutions with varying levels of "security". First of all, however, you can't take away read permission, because the source code has to be readable in order to be compiled and interpreted. (That doesn't mean that a CGI script's source is readable by people on the web, though--only by people with access to the filesystem.) So you have to leave the permissions at the socially friendly 0755 level.

Some people regard this as a security problem. If your program does insecure things and relies on people not knowing how to exploit those insecurities, it is not secure. It is often possible for someone to determine the insecure things and exploit them without viewing the source. Security through obscurity, the name for hiding your bugs instead of fixing them, is little security indeed.

You can try using encryption via source filters (Filter::* from CPAN), but any decent programmer will be able to
decrypt it. You can try using the byte code compiler and interpreter described below, but the curious might still be able to de-compile it. You can try using the native-code compiler described below, but crackers might be able to disassemble it. These pose varying degrees of difficulty to people wanting to get at your code, but none can definitively conceal it (true of every language, not just Perl).

If you're concerned about people profiting from your code, then the bottom line is that nothing but a restrictive license will give you legal security. License your software and pepper it with threatening statements like “This is unpublished proprietary software of XYZ Corp. Your access to it does not give you permission to use it blah blah blah.” We are not lawyers, of course, so you should see a lawyer if you want to be sure your license's wording will stand up in court.

How can I compile my Perl program into byte code or C?
Malcolm Beattie has written a multifunction backend compiler, available from CPAN, that can do both these things. It is included in the perl5.005 release, but is still considered experimental. This means it's fun to play with if you're a programmer but not really for people looking for turn-key solutions.

Merely compiling into C does not in and of itself guarantee that your code will run very much faster. That's because except for lucky cases where a lot of native type inferencing is possible, the normal Perl run-time system is still present and so your program will take just as long to run and be just as big. Most programs save little more than compilation time, leaving execution no more than 10-30% faster. A few rare programs actually benefit significantly (even running several times faster), but this takes some tweaking of your code.

You'll probably be astonished to learn that the current version of the compiler generates a compiled form of your script whose executable is just as big as the original perl executable, and then some. That's because as currently written, all programs are prepared for a full eval() statement. You can tremendously reduce this cost by building a shared libperl.so library and linking against that. See the INSTALL podfile in the Perl source distribution for details.

How can I compile Perl into Java?
You can also integrate Java and Perl with the Perl Resource Kit from O'Reilly and Associates. See http://www.oreilly.com/catalog/prkunix/.

Perl 5.6 comes with Java Perl Lingo, or JPL. JPL, still in development, allows Perl code to be called from Java. See jpl/README in the Perl source tree.

How can I get #!perl to work on [MS-DOS,NT,...]?
For OS/2 just use
```bash
extproc perl -S -your_switches
```
as the first line in *.cmd file (-S due to a bug in cmd.exe's `extproc' handling). For DOS one should first invent a corresponding batch file and codify it in ALTERNATIVE_SHEBANG (see the INSTALL file in the source distribution for more information).

The Win95/NT installation, when using the ActiveState port of Perl, will modify the Registry to associate the .pl extension with the perl interpreter. If you install another port, perhaps even building your own Win95/NT Perl from the standard sources by using a Windows port of gcc (e.g., with cygwin or mingw32), then you'll have to modify the Registry yourself. In addition to associating .pl with the interpreter, NT people can use: SET PATHEXT=%PATHEXT%.PL to let them run the program install-linux.pl merely by typing install-linux.

Macintosh Perl programs will have the appropriate Creator and Type, so that double-clicking them will invoke the Perl application.

IMPORTANT!: Whatever you do, PLEASE don't get frustrated, and just throw the perl interpreter into your cgi-bin
directory, in order to get your programs working for a web server. This is an EXTREMELY big security risk. Take the
time to figure out how to do it correctly.
Can I write useful Perl programs on the command line?
Yes. Read perlrun for more information. Some examples follow. (These assume standard Unix shell quoting rules.)

- sum first and last fields
  perl -lane \"print $F[0] + $F[-1]\" *

- identify text files
  perl -le \"for(@ARGV) {print if -f && -T _} \" *

- remove (most) comments from C program
  perl -0777 -pe \"s!\!/\*.*?\*/\!g s' foo.c

- make file a month younger than today, defeating reaper daemons
  perl -e \"$X=24*60*60; utime(time(),time()) + 30 * $X, @ARGV\" *

- find first unused uid
  perl -le \"$i++ while getpwuid($i); print $i\"

- display reasonable manpath
  echo $PATH | perl -nl -072 -e \n  s![^/+/]*$!man!&&-d&&!$s{$_}++&&push@m,$_;END{print @m}\"

OK, the last one was actually an Obfuscated Perl Contest entry. :-) Why don't Perl one-liners work on my DOS/Mac/VMS system?
The problem is usually that the command interpreters on those systems have rather different ideas about quoting
than the Unix shells under which the one-liners were created. On some systems, you may have to change single-
quotes to double ones, which you must NOT do on Unix or Plan9 systems. You might also have to change a single
% to a %%
For example:

- Unix
  perl -e \"print \"Hello world\n\"\"

- DOS, etc.
  perl -e \"print \"Hello world\n\"\"

- Mac
  print "Hello world\n"
  (then Run "Myscript" or Shift-Command-R)

- VMS
  perl -e \"print ""Hello world\n\""

The problem is that none of these examples are reliable: they depend on the command interpreter. Under Unix, the
first two often work. Under DOS, it's entirely possible that neither works. If 4DOS was the command shell, you'd
probably have better luck like this:

perl -e \"print <Ctrl-x>"Hello world\n<Ctrl-x>"\"

Under the Mac, it depends which environment you are using. The MacPerl shell, or MPW, is much like Unix shells
in its support for several quoting variants, except that it makes free use of the Mac's non-ASCII characters as control
characters.

Using qq(), q(), and qx(), instead of "double quotes", 'single quotes', and `backticks', may make one-liners easier to
write.

There is no general solution to all of this. It is a mess, pure and simple. Sucks to be away from Unix, huh? :-) [Some of this answer was contributed by Kenneth Albanowski.]
Where can I learn about CGI or Web programming in Perl?
For modules, get the CGI or LWP modules from CPAN. For textbooks, see the two especially dedicated to web stuff
in the question on books. For problems and questions related to the web, like "$ Why do I get 500 Errors" or "$ Why
doesn't it run from the browser right when it runs fine on the command line", see these sources:
WWW Security FAQ
   http://www.w3.org/Security/Faq/
Web FAQ
   http://www.boutell.com/faq/
CGI FAQ
   http://www.webthing.com/tutorials/cgifaq.html
HTTP Spec
   http://www.w3.org/pub/WWW/Protocols/HTTP/
HTML Spec
   http://www.w3.org/TR/REC-html40/
   http://www.w3.org/pub/WWW/MarkUp/
CGI Spec
   http://www.w3.org/CGI/
CGI Security FAQ
   http://www.go2net.com/people/paulp/cgi-security/safe-cgi.txt

Where can I learn about object-oriented Perl programming?
A good place to start is perltoot, and you can use perlobj, perlboot, and perlbot for reference. Perltoot didn't come out until the 5.004 release; you can get a copy (in pod, html, or postscript) from http://www.perl.com/CPAN/doc/FMTEYEWTK/.

Where can I learn about linking C with Perl? [h2xs, xsubpp]
If you want to call C from Perl, start with perlxstut, moving on to perlxs, xsubpp, and perlgluts. If you want to call Perl from C, then read perlembed, percall, and perlgluts. Don't forget that you can learn a lot from looking at how the authors of existing extension modules wrote their code and solved their problems. I've read perlembed, perlgluts, etc., but I can't embed perl in my C program; what am I doing wrong?
Download the ExtUtils::Embed kit from CPAN and run `make test'. If the tests pass, read the pods again and again and again. If they fail, see perlbug and send a bug report with the output of make test TEST_VERBOSE=1 along with perl -V.

When I tried to run my script, I got this message. What does it mean?
A complete list of Perl's error messages and warnings with explanatory text can be found in perldiag. You can also use the splain program (distributed with Perl) to explain the error messages:
perl program 2>diag.out
splain [-v] [-p] diag.out
or change your program to explain the messages for you:
   use diagnostics;
or
   use diagnostics -verbose;

What's MakeMaker?
This module (part of the standard Perl distribution) is designed to write a Makefile for an extension module from a Makefile.PL. For more information, see ExtUtils::MakeMaker.

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

=head1 NAME

Pod::Simple::Text -- format Pod as plaintext

=head1 SYNOPSIS

perl -MPod::Simple::Text -e "exit Pod::Simple::Text->filter(shift)->any_errata_seen" thingy.pod

=head1 DESCRIPTION

This class is a formatter that takes Pod and renders it as wrapped plaintext.

Its wrapping is done by L<Text::Wrap>, so you can change C<$Text::Wrap::columns> as you like.

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::TextContent>, L<Pod::Text>

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=head1 AUTHOR

Sean M. Burke C<sburke@cpan.org>

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1078070235_1597834451.33/0/pod-simple-3-01-zip/pod-simple-3.01/t/test_old_perlfq3_out.txt
3.01/lib/Pod/Simple/Text.pm
No license file was found, but licenses were detected in source scan.
=head1 NAME
Pod::Simple::PullParser -- a pull-parser interface to parsing Pod
=head1 SYNOPSIS
my $parser = SomePodProcessor->new;
$parser->set_source( "whatever.pod" );
$parser->run;
Or:
my $parser = SomePodProcessor->new;
$parser->set_source( $some_filehandle_object );
$parser->run;
Or:
my $parser = SomePodProcessor->new;
$parser->set_source( \$document_source );
$parser->run;
Or:
my $parser = SomePodProcessor->new;
$parser->set_source( \@document_lines );
$parser->run;
And elsewhere:
require 5;
package SomePodProcessor;
use strict;
use base qw(Pod::Simple::PullParser);
sub run {
my $self = shift;
Token:
while(my $token = $self->get_token) {
...process each token...
}
}
=head1 DESCRIPTION

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This class is for using Pod::Simple to build a Pod processor -- but one that uses an interface based on a stream of token objects, instead of based on events.

This is a subclass of L<Pod::Simple> and inherits all its methods.

A subclass of Pod::Simple::PullParser should define a C<run> method that calls C<< $token = $parser->get_token >> to pull tokens.

See the source for Pod::Simple::RTF for an example of a formatter that uses Pod::Simple::PullParser.

=head1 METHODS

=over

=item my $token = $parser->get_token

This returns the next token object (which will be of a subclass of L<Pod::Simple::PullParserToken>), or undef if the parser-stream has hit the end of the document.

=item $parser->unget_token( $token )

=item $parser->unget_token( $token1, $token2, ... )

This restores the token object(s) to the front of the parser stream.

=back

The source has to be set before you can parse anything. The lowest-level way is to call C<set_source>:

=over

=item $parser->set_source( $filename )

=item $parser->set_source( $filehandle_object )

=item $parser->set_source( @document_source )

=item $parser->set_source( \$document_source )

=item $parser->set_source( @document_lines )

=back

Or you can call these methods, which Pod::Simple::PullParser has defined to work just like Pod::Simple's same-named methods:
For those to work, the Pod-processing subclass of Pod::Simple::PullParser has to have defined a $parser->run method -- so it is advised that all Pod::Simple::PullParser subclasses do so. See the Synopsis above, or the source for Pod::Simple::RTF.

Authors of formatter subclasses might find these methods useful to call on a parser object that you haven’t started pulling tokens from yet:

\[\text{my } \$\text{title}_\text{string} = \text{parser-}\rightarrow\text{get\_title}\]

This tries to get the title string out of $parser, by getting some tokens, and scanning them for the title, and then ungetting them so that you can process the token-stream from the beginning.

For example, suppose you have a document that starts out:

\[\text{head1 NAME}\]
\[\text{Hoo::Boy::Wowza -- Stuff }\text{wow} \text{ yeah!}\]

$parser->get_title on that document will return "Hoo::Boy::Wowza -- Stuff wow yeah!".

In cases where get_title can’t find the title, it will return empty-string ("").

\[\text{my } \$\text{title}_\text{string} = \text{parser-}\rightarrow\text{get\_short\_title}\]

This is just like get_title, except that it returns just the modulename, if the title seems to be of the form "SomeModuleName -- description".

For example, suppose you have a document that starts out:
=head1 NAME

Hoo::Boy::Wowza -- Stuff B<wow> yeah!

then $parser->get_short_title on that document will return
"Hoo::Boy::Wowza".

But if the document starts out:

=head1 NAME

Hooboy, stuff B<wow> yeah!

then $parser->get_short_title on that document will return "Hooboy,
stuff wow yeah!".

If the title can't be found, then get_short_title returns empty-string
("").

=item $author_name   = $parser->get_author

This works like get_title except that it returns the contents of the
"=head1 AUTHOR\n\nParagraph...\n" section, assuming that that section
isn't terribly long.

(This method tolerates "AUTHORS" instead of "AUTHOR" too.)

=item $description_name = $parser->get_description

This works like get_title except that it returns the contents of the
"=head1 PARAGRAPH\n\nParagraph...\n" section, assuming that that section
isn't terribly long.

=item $version_block = $parser->get_version

This works like get_title except that it returns the contents of the
"=head1 VERSION\n\n[BIG BLOCK]\n" block. Note that this does NOT
return the module's C<$VERSION>!!

=back

=head1 NOTE

You don't actually I<have> to define a C<run> method. If you're
writing a Pod-formatter class, you should define a C<run> just so
that users can call C<parse_file> etc, but you don't I<have> to.
And if you're not writing a formatter class, but are instead just writing a program that does something simple with a Pod::PullParser object (and not an object of a subclass), then there's no reason to bother subclassing to add a C<run> method.

=head1 SEE ALSO

L<Pod::Simple>

L<Pod::Simple::PullParserToken> -- and its subclasses
L<Pod::Simple::PullParserStartToken>,
L<Pod::Simple::PullParserTextToken>, and
L<Pod::Simple::PullParserEndToken>.

L<HTML::TokeParser>, which inspired this.

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=head1 AUTHOR

Sean M. Burke C<sburke@cpan.org>

=cut

JUNK:

sub _old_get_title {  # some witchery in here
  my $self = $_[0];
  my $title;
  my @to_unget;

  while(1) {
    push @to_unget, $self->get_token;
    unless(defined $to_unget[-1]) { # whoops, short doc!
      pop @to_unget;
      last;
    }
  }
DEBUG and print "Got token ", $to_unget[-1]->dump, "n";

(DEBUG and print "Too much in the buffer:");
last if @to_unget > 25; # sanity

my $pattern = ";
if (#$to_unget[-1]->type eq 'end'
    #and $to_unget[-1]->tagname eq 'Para'
    #and
    ($pattern = join(";
    map {;
        ($._->type eq 'start') ? (<" . $._->tagname . ">")
    : ($._->type eq 'end' ) ? ("</" . $._->tagname . ">")
    : ($._->type eq 'text' ) ? ($._->text =~ m<^([A-Z]+)$>s ? $1 : 'X')
    : "BLORP"
    }) @to_unget
) =~ m\<head1>NAME</head1><Para>(X|</\?.[BCIFLS]\>)\+</Para>$\s

} # Whee, it fits the pattern
DEBUG and print "Seems to match =head1 NAME pattern:\n";
$title = ";
foreach my $t (reverse @to_unget) {
    last if $t->type eq 'start' and $t->tagname eq 'Para';
    $title = $t->text . $title if $t->type eq 'text';
}
undef $title if $title =~ m/^\s*$/; # make sure it's contentful!
last;

} elsif ($pattern =~ m\<head(\d)>(.+)</head\d>$
    and !( $1 eq '1' and $2 eq 'NAME' )
)
{
    # Well, it fits a fallback pattern
    DEBUG and print "Seems to match NAMEless pattern:\n";
    $title = ";
    foreach my $t (reverse @to_unget) {
        last if $t->type eq 'start' and $t->tagname =~ m/^head\d$/s;
        $title = $t->text . $title if $t->type eq 'text';
    }
    undef $title if $title =~ m/^\s*$/; # make sure it's contentful!
    last;
}
else {
    DEBUG and $pattern and print "Leading pattern: $pattern\n";
}

# Put it all back:
$self->unget_token(@to_unget);

if (DEBUG) {
    if (defined $title) { print "Returning title <$title>
    } else { print "Returning title <>
    } }

return " unless defined $title;
return $title;
}

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1078070235_1597834451.33/0/pod-simple-3-01-zip/pod-simple-3.01/lib/Pod/Simple/PullParser.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME
Pod::Simple::DumpAsXML -- turn Pod into XML

=head1 SYNOPSIS
perl -MPod::Simple::DumpAsXML -e \n  "exit Pod::Simple::DumpAsXML->filter(shift)->any_errata_seen" \n  thingy.pod

=head1 DESCRIPTION
Pod::Simple::DumpAsXML is a subclass of L<Pod::Simple> that parses Pod and turns it into indented and wrapped XML. This class is of interest to people writing Pod formatters based on Pod::Simple.

Pod::Simple::DumpAsXML inherits methods from L<Pod::Simple>.

=head1 SEE ALSO
L<Pod::Simple::XMLOutStream> is rather like this class.
Pod::Simple::XMLOutStream's output is space-padded in a way that's better for sending to an XML processor (that is, it has no ignoreable whitespace). But
Pod::Simple::DumpAsXML's output is much more human-readable, being (more-or-less) one token per line, with line-wrapping.

L<Pod::Simple::DumpAsText> is rather like this class, except that it doesn't dump with XML syntax. Try them and see which one you like best!
L<Pod::Simple>, L<Pod::Simple::DumpAsXML>

The older libraries L<Pod::PXML>, L<Pod::XML>, L<Pod::SAX>

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=head1 AUTHOR

Sean M. Burke C<sburke@cpan.org>

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1078070235_1597834451.33/0/pod-simple-3-01-zip/pod-simple-3.01/lib/Pod/Simple/DumpAsXML.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::SimpleTree -- parse Pod into a simple parse tree

=head1 SYNOPSIS

% cat ptest.pod

=head1 PIE

I like B<pie>!

% perl -MPod::Simple::SimpleTree -MData::Dumper -e \n "print Dumper(Pod::Simple::SimpleTree->new->parse_file(shift)->root)" \n ptest.pod

$VAR1 = [
   'Document',
   { 'start_line' => 1 },
   [
   ]
=head1 DESCRIPTION

This class is of interest to people writing a Pod processor/formatter.

This class takes Pod and parses it, returning a parse tree made just
of arrayrefs, and hashrefs, and strings.

This is a subclass of L<Pod::Simple> and inherits all its methods.

This class is inspired by XML::Parser's "Tree" parsing-style, although
it doesn't use exactly the same LoL format.

=head1 METHODS

At the end of the parse, call C<< $parser->root >> to get the
tree's top node.

=head1 Tree Contents

Every element node in the parse tree is represented by an arrayref of
the form: C<< [ I<elementname>, \%attributes, I<...subnodes...> ] >>.
See the example tree dump in the Synopsis, above.

Every text node in the tree is represented by a simple (non-ref)
string scalar. So you can test C<ref($node)> to see whether you have
an element node or just a text node.

The top node in the tree is C<< [ 'Document', \%attributes,
I<...subnodes...> ] >>
SEE ALSO

Pod::Simple
perllol
The "Tree" subsubsection in XML::Parser::XML::Parser/"Tree"

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AUTHOR

Sean M. Burke <sburke@cpan.org>

NAME

Pod::Simple::Checker -- check the Pod syntax of a document

SYNOPSIS

perl -MPod::Simple::Checker -e "exit Pod::Simple::Checker->filter(shift)->any_errata_seen" thingy.pod

DESCRIPTION

This class is for checking the syntactic validity of Pod.
It works by basically acting like a simple-minded version of Pod::Simple::Text that formats only the "Pod Errors" section (if Pod::Simple even generates one for the given document).

This is a subclass of Pod::Simple and inherits all its methods.
SEE ALSO

Pod::Simple, Pod::Simple::Text, Pod::Checker

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AUTHOR

Sean M. Burke <sburke@cpan.org>

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1078070235_1597834451.33/0/pod-simple-3-01-zip/pod-simple-3.01/lib/Pod/Simple/Checker.pm
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# TODO: let it be an option whether a given subclass even wants little treelets?

NAME

Pod::Simple::LinkSection -- represent "section" attributes of L codes

SYNOPSIS

# a long story

DESCRIPTION

This class is not of interest to general users.

Pod::Simple uses this class for representing the value of the "section" attribute of "L" start-element events. Most applications can just use the normal stringification of objects of this class; they stringify to just the text content of the section,

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such as "foo" for
C<< LZ<<<Stuff/foo> >>, and "bar" for
C<< LZ<<<Stuff/bIZ<<<ar>> >>.

However, anyone particularly interested in getting the full value of
the treelet, can just traverse the content of the treelet
@$treelet_object. To wit:

% perl -MData::Dumper -e
 "use base qw(Pod::Simple::Methody);
  sub start_L { print Dumper($_[1]{'section'}) }
  __PACKAGE__->new->parse_string_document('=head1 L<Foo/bI<ar>baz>>')
 "
Output:
$VAR1 = bless( [
  '',
  {}
  'b',
bless( [
    'T',
    {}
    'ar'
  ], 'Pod::Simple::LinkSection' ),
  'baz'
], 'Pod::Simple::LinkSection' );

But stringify it and you get just the text content:

% perl -MData::Dumper -e
 "use base qw(Pod::Simple::Methody);
  sub start_L { print Dumper('_'.$_[1]{'section'}) }
  __PACKAGE__->new->parse_string_document('=head1 L<Foo/bI<ar>baz>>')
 "
Output:
$VAR1 = 'barbaz';

=head1 SEE ALSO
L<Pod::Simple>

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=head1 AUTHOR

Sean M. Burke C<sburke@cpan.org>

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1078070235_1597834451.33/0/pod-simple-3-01-zip/pod-simple-3.01/lib/Pod/Simple/LinkSection.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::HTML - convert Pod to HTML

=head1 SYNOPSIS

perl -MPod::Simple::HTML -e Pod::Simple::HTML::go thingy.pod

=head1 DESCRIPTION

This class is for making an HTML rendering of a Pod document.

This is a subclass of L<Pod::Simple::PullParser> and inherits all its methods (and options).

Note that if you want to do a batch conversion of a lot of Pod documents to HTML, you should see the module L<Pod::Simple::HTMLBatch>.

=head1 CALLING FROM THE COMMAND LINE

TODO

perl -MPod::Simple::HTML -e Pod::Simple::HTML::go Thing.pod Thing.html

=head1 CALLING FROM PERL

TODO make a new object, set any options, and use parse_from_file
METHODS

TODO
all (most?) accessorized methods

SUBCLASSING

TODO

can just set any of: html_css html_javascript title_prefix
'html_header_before_title',
'html_header_after_title',
'html_footer',

maybe override do_pod_link

maybe override do_beginning do_end

SEE ALSO

L<Pod::Simple>, L<Pod::Simple::HTMLBatch>

TODO: a corpus of sample Pod input and HTML output? Or common idioms?

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AUTHOR

Sean M. Burke C<sburke@cpan.org>
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1078070235_1597834451.33/0/pod-simple-3-01.zip/pod-simple-3.01/lib/Pod/Simple/HTML.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple - framework for parsing Pod

=head1 SYNOPSIS

TODO

=head1 DESCRIPTION

Pod::Simple is a Perl library for parsing text in the Pod ("plain old documentation") markup language that is typically used for writing documentation for Perl and for Perl modules. The Pod format is explained in the L<perlpod|perlpod> man page; the most common formatter is called "perldoc".

Pod formatters can use Pod::Simple to parse Pod documents into produce renderings of them in plain ASCII, in HTML, or in any number of other formats. Typically, such formatters will be subclasses of Pod::Simple, and so they will inherit its methods, like C<parse_file>.

If you're reading this document just because you have a Pod-processing subclass that you want to use, this document (plus the documentation for the subclass) is probably all you'll need to read.

If you're reading this document because you want to write a formatter subclass, continue reading this document, and then read L<Pod::Simple::Subclassing>, and then possibly even read L<perlpodspec> (some of which is for parser-writers, but much of which is notes to formatter-writers).

=head1 MAIN METHODS

=over

=item C<< $parser = I<SomeClass>-new(); >>

This returns a new parser object, where I<C<SomeClass>> is a subclass
of Pod::Simple.

=item C<< $parser->output_fh( *OUT ); >>

This sets the filehandle that C<$parser>'s output will be written to.
You can pass C<*STDOUT>, otherwise you should probably do something
like this:

my $outfile = "output.txt";
open TXTOUT, ">$outfile" or die "Can't write to $outfile: $!";
$parser->output_fh(TXTOUT);

...before you call one of the C<< $parser->parse_I<whatever> >> methods.

=item C<< $parser->output_string( $somestring ); >>

This sets the string that C<$parser>'s output will be sent to,
instead of any filehandle.

=item C<< $parser->parse_file( I<$some_filename> ); >>

=item C<< $parser->parse_file( *INPUT_FH ); >>

This reads the Pod content of the file (or filehandle) that you specify,
and processes it with that C<$parser> object, according to however
C<$parser>'s class works, and according to whatever parser options you
have set up for this C<$parser> object.

=item C<< $parser->parse_string_document( I<$all_content> ); >>

This works just like C<parse_file> except that it reads the Pod
content not from a file, but from a string that you have already
in memory.

=item C<< $parser->parse_lines( I<...@lines...>, undef ); >>

This processes the lines in C<@lines> (where each list item must be a
defined value, and must contain exactly one line of content -- so no
items like C<"foo\nbar"> are allowed). The final C<undef> is used to
indicate the end of document being parsed.

The other C<parse_Whatever> methods are meant to be called only once
per C<$parser> object; but C<parse_lines> can be called as many times per
C<$parser> object as you want, as long as the last call (and only
the last call) ends with an C<undef> value.
This returns true only if there has been any real content seen for this document.

This is a shortcut method for creating a new parser object, setting the output handle to STDOUT, and then processing the specified file (or filehandle, or in-memory document). This is handy for one-liners like this:

```
perl -MPod::Simple::Text -e "Pod::Simple::Text->filter('thingy.pod')"
```

=head1 SECONDARY METHODS

Some of these methods might be of interest to general users, as well as of interest to formatter-writers.

Note that the general pattern here is that the accessor-methods read the attribute's value with $value = $parser->I<attribute> and set the attribute's value with $parser->I<attribute>(I<newvalue>). For each accessor, I typically only mention one syntax or another, based on which I think you are actually most likely to use.

=item C<< $parser->no_whining( I<SOMEVALUE> ) >>

If you set this attribute to a true value, you will suppress the parser's complaints about irregularities in the Pod coding. By default, this attribute's value is false, meaning that irregularities will be reported.

Note that turning this attribute to true won't suppress one or two kinds of complaints about rarely occurring unrecoverable errors.
If you set this attribute to a true value, you will stop the parser from generating a "POD ERRORS" section at the end of the document. By default, this attribute's value is false, meaning that an errata section will be generated, as necessary.

If you set this attribute to a true value, it will send reports of parsing errors to STDERR. By default, this attribute's value is false, meaning that no output is sent to STDERR.

Note that errors can be noted in an errata section, or sent to STDERR, or both, or neither. So don't think that turning on $complain_stderr will turn off $no_errata_section or vice versa -- these are independent attributes.

This returns the filename that this parser object was set to read from.

This returns true if $parser has read from a source, and has seen Pod content in it.

This returns true if $parser has read from a source, and come to the end of that source.

=head1 CAVEATS

This is just a beta release -- there are a good number of things still left to do. Notably, support for EBCDIC platforms is still half-done, an untested.

=head1 SEE ALSO
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=head1 AUTHOR

Sean M. Burke C<sburke@cpan.org>

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1078070235_1597834451.33/0/pod-simple-3-01-zip/pod-simple-3.01/lib/Pod/Simple.pod

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=head1 NAME

Pod::Simple::PullParserEndToken -- end-tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

(See L<Pod::Simple::PullParser>)

=head1 DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser>, you might
get an object of this class.

This is a subclass of L<Pod::Simple::PullParserToken> and inherits all its methods,
and adds these methods:

=over

=item $token->tagname

This returns the tagname for this end-token object.
For example, parsing a "=head1 ...

=item $token->tagname('I<somestring>

This changes the tagname for this end-token object.
You probably won't need to do this.

=item $token->tag(...)

A shortcut for $token->tagname(...)

=item $token->is_tag('I<somestring>') or $token->is_tagname('I<somestring>

These are shortcuts for C<< $token->tag() eq I<somestring> >>

=back

You're unlikely to ever need to construct an object of this class for
yourself, but if you want to, call

C<<
Pod::Simple::PullParserEndToken->new( I<tagname> )
>>

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1078070235_1597834451.33/0/pod-simple-3-01-zip/pod-simple-3.01/lib/Pod/Simple/PullParserEndToken.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::RTF -- format Pod as RTF

=head1 SYNOPSIS

perl -MPod::Simple::RTF -e "exit Pod::Simple::RTF->filter(shift)->any_errata_seen"^
\thingy.pod > thingy.rtf

=head1 DESCRIPTION

This class is a formatter that takes Pod and renders it as RTF, good for
viewing/printing in MSWord, WordPad/write.exe, TextEdit, etc.

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 FORMAT CONTROL ATTRIBUTES

You can set these attributes on the parser object before you
call C<parse_file> (or a similar method) on it:

=over
=item $parser->head1_halfpoint_size( I<halfpoint_integer> );
=item $parser->head2_halfpoint_size( I<halfpoint_integer> );
=item $parser->head3_halfpoint_size( I<halfpoint_integer> );
=item $parser->head4_halfpoint_size( I<halfpoint_integer> );
=item $parser->codeblock_halfpoint_size( I<halfpoint_integer> );

These methods set the size (in half-points, like 52 for 26-point)
that these heading levels will appear as.

This method sets the size (in half-points, like 21 for 10.5-point)
that codeblocks ("verbatim sections") will appear as.

=item $parser->header_halfpoint_size( I<halfpoint_integer> )

This method sets the size (in half-points, like 15 for 7.5-point) that the header on each page will appear in. The header is usually just "I<modulename> p. I<pagenumber>”.

=item $parser->normal_halfpoint_size( I<halfpoint_integer> )

This method sets the size (in half-points, like 26 for 13-point) that normal paragraphic text will appear in.

=item $parser->no_proofing_exemptions( I<true_or_false> )

Set this value to true if you don't want the formatter to try putting a hidden code on all Perl symbols (as best as it can notice them) that labels them as being not in English, and so not worth spellchecking.

=item $parser->doc_lang( I<microsoft_decimal_language_code> )

This sets the language code to tag this document as being in. By default, it is currently the value of the environment variable C<RTFDEFLANG>, or if that's not set, then the value 1033 (for US English).

Setting this appropriately is useful if you want to use the RTF to spellcheck, and/or if you want it to hyphenate right.

Here are some notable values:

1033  US English
2057  UK English
3081  Australia English
4105  Canada English
1034  Spain Spanish
2058  Mexico Spanish
1031  Germany German
1036  France French
3084  Canada French
1035  Finnish
1044  Norwegian (Bokmal)
2068  Norwegian (Nynorsk)

=back

If you are particularly interested in customizing this module's output
even more, see the source and/or write to me.

=head1 SEE ALSO

L<Pod::Simple>, L<RTF::Writer>, L<RTF::Cookbook>, L<RTF::Document>,
L<RTF::Generator>

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=head1 AUTHOR

Sean M. Burke <sburke@cpan.org>

=cut

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=head1 NAME

Pod::Simple::DumpAsText -- dump Pod-parsing events as text

=head1 SYNOPSIS

perl -MPod::Simple::DumpAsText -e \
"exit Pod::Simple::DumpAsText->filter(shift)->any_errata_seen" \
thingy.pod

=head1 DESCRIPTION

This class is for dumping, as text, the events gotten from parsing a Pod
document. This class is of interest to people writing Pod formatters
based on Pod::Simple. It is useful for seeing exactly what events you
get out of some Pod that you feed in.

This is a subclass of L<Pod::Simple> and inherits all its methods.
=head1 SEE ALSO

L<Pod::Simple::DumpAsXML>
L<Pod::Simple>

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=head1 AUTHOR

Sean M. Burke C<sburke@cpan.org>

=cut

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

=head1 NAME

Pod::Simple::TextContent -- get the text content of Pod

=head1 SYNOPSIS

TODO

perl -MPod::Simple::TextContent -e \
"exit Pod::Simple::TextContent->filter(shift)->any_errata_seen" \
thingy.pod

=head1 DESCRIPTION

This class is that parses Pod and dumps just the text content. It is mainly meant for use by the Pod::Simple test suite, but you may find some other use for it.

This is a subclass of L<Pod::Simple> and inherits all its methods.
=head1 NAME

Pod::Simple::HTMLBatch - convert several Pod files to several HTML files

=head1 SYNOPSIS

perl -MPod::Simple::HTMLBatch -e 'Pod::Simple::HTMLBatch::go' in out

=head1 DESCRIPTION

This module is used for running batch-conversions of a lot of HTML documents

This class is NOT a subclass of Pod::Simple::HTML
(nor of bad old Pod::Html) -- although it uses Pod::Simple::HTML for doing the conversion of each document.

The normal use of this class is like so:

use Pod::Simple::HTMLBatch;
my $batchconv = Pod::Simple::HTMLBatch->new;
$batchconv->some_option( some_value );
$batchconv->some_other_option( some_other_value );
$batchconv->batch_convert( \@search_dirs, $output_dir );

=head2 FROM THE COMMAND LINE

Note that this class also provides
(but does not export) the function Pod::Simple::HTMLBatch::go.
This is basically just a shortcut for C<<
Pod::Simple::HTMLBatch->batch_convert(@ARGV) >>.
It's meant to be handy for calling from the command line.

However, the shortcut requires that you specify exactly two command-line
arguments, C<indirs> and C<outdir>.

Example:

% mkdir out_html
% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go @INC out_html
  (to convert the pod from Perl's @INC
   files under the directory ../htmlversion)

(Note that the command line there contains a literal @INC.  This
is handled as a special case by batch_convert, in order to save you having
to enter the odd-looking "" as the first command-line parameter when you
mean "just use whatever's in @INC".)

Example:

% mkdir ../seekrut
% chmod og-rx ../seekrut
% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go . ../htmlversion
  (to convert the pod under the current dir into HTML
   files under the directory ../htmlversion)

Example:

% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go happydocs .
  (to convert all pod from happydocs into the current directory)

=head1 MAIN METHODS

=over

=item $batchconv = Pod::Simple::HTMLBatch->new;

This TODO

=item $batchconv->batch_convert( I<indirs>, I<outdir> );

this TODO

=item $batchconv->batch_convert( undef , ...);

=item $batchconv->batch_convert( q[@INC], ...);

These two values for I<indirs> specify that the normal Perl @INC

=item $batchconv->batch_convert( \@dirs , ...);

This specifies that the input directories are the items in
the arrayref C<\@dirs>.

=item $batchconv->batch_convert( "somedir" , ...);

This specifies that the director "somedir" is the input.
(This can be an absolute or relative path, it doesn't matter.)

A common value you might want would be just ".," for the current
directory:

$batchconv->batch_convert( ".", ...);

=item $batchconv->batch_convert( 'somedir:someother:also' , ...);

This specifies that you want the dirs "somedir", "someother", and "also"
scanned, just as if you'd passed the arrayref
C<qw( somedir someother also)> . Note that a ":"-separator is normal
under Unix, but Under MSWin, you'll need C<somedir;someother;also>
instead, since the pathsep on MSWin is ";" instead of ":" . (And
I<that> is because ";" often comes up in paths, like
C<"c:/perl/lib"> .)

(Exactly what separator character should be used, is gotten from
C<$Config::Config{'path_sep'}>, via the L<Config> module.)

=item $batchconv->batch_convert( ... , undef );

This specifies that you want the HTML output to go into the current
directory.

(Note that a missing or undefined value means a different thing in
the first slot than in the second. That's so that C<batch_convert()> 
with no arguments (or undef arguments) means "go from @INC, into 
the current directory.

=item $batchconv->batch_convert( ... , 'somedir' );

This specifies that you want the HTML output to go into the 
directory 'somedir'.
(This can be an absolute or relative path, it doesn't matter.)

=back

Note that you can also call C<batch_convert> as a class method, 
like so:

Pod::Simple::HTMLBatch->batch_convert( ... );

That is just short for this:

Pod::Simple::HTMLBatch-> new-> batch_convert(...);

That is, it runs a conversion with default options, for 
whatever inputdirs and output dir you specify.

=head2 ACCESSOR METHODS

The following are all accessor methods -- that is, they don't do anything 
on their own, but just alter the contents of the conversion object, 
which comprises the options for this particular batch conversion.

We show the "put" form of the accessors below (i.e., the syntax you use 
for setting the accessor to a specific value). But you can also 
call each method with no parameters to get its current value. For 
example, C<< $self->contents_file() >> returns the current value of 
the contents_file attribute.

=over

=item $batchconv->verbose( I<nonnegative_integer> );

This controls how verbose to be during batch conversion, as far as 
notes to STDOUT (or whatever is C<select>'d) about how the conversion 
is going. If 0, no progress information is printed. 
If 1 (the default value), some progress information is printed. 
Higher values print more information.
This controls whether or not each HTML page is liable to have a little table of contents at the top (which we call an "index" for historical reasons). This is true by default.

If set, should be the name of a file (in the output directory) to write the HTML index to. The default value is "index.html". If you set this to a false value, no contents file will be written.

This specifies what string should be put at the beginning of the contents page.
The default is a string more or less like this:

<html>
<head><title>Perl Documentation</title></head>
<body class='contentspage'>
<h1>Perl Documentation</h1>

This specifies what string should be put at the end of the contents page.
The default is a string more or less like this:

<p class='contentsfooty'>Generated by Pod::Simple::HTMLBatch v3.01 under Perl v5.008 At Fri May 14 22:26:42 2004 GMT, which is Fri May 14 14:26:42 2004 local time.</p>

TODO

TODO

TODO
If true (the default value), we autogenerate some CSS files in the output directory, and set our HTML files to use those.
TODO: continue

=item $batchconv->javascript_flurry( I<true-or-false> );

If true (the default value), we autogenerate a JavaScript in the output directory, and set our HTML files to use it. Currently, the JavaScript is used only to get the browser to remember what stylesheet it prefers.
TODO: continue

=item $batchconv->no_contents_links( I<true-or-false> );

TODO

=item $batchconv->html_render_class( I<classname> );

This sets what class is used for rendering the files.
The default is "Pod::Simple::Search". If you set it to something else, it should probably be a subclass of Pod::Simple::Search, and you should C<require> or C<use> that class so that's it's loaded before Pod::Simple::HTMLBatch tries loading it.

=back

=head1 NOTES ON CUSTOMIZATION

TODO

call add_css($someurl) to add stylesheet as alternate

call add_css($someurl,1) to add as primary stylesheet

call add_javascript

subclass Pod::Simple::HTML and set $batchconv->html_render_class to that classname

and maybe override

$PAGE->batch_mode_page_object_init($self, $module, $infile, $outfile, $depth)
or maybe override

$batchconv->batch_mode_page_object_init($page, $module, $infile, $outfile, $depth)

=head1 ASK ME!
If you want to do some kind of big pod-to-HTML version with some particular kind of option that you don’t see how to achieve using this module, email me (C<sburke@cpan.org>) and I’ll probably have a good idea how to do it. For reasons of concision and energetic laziness, some methods and options in this module (and the dozen modules it depends on) are undocumented; but one of those undocumented bits might be just what you’re looking for.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::HTMLBatch>, L<perlpod>, L<perlpodspec>

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1078070235_1597834451.33/0/pod-simple-3.01-zip/pod-simple-3.01/lib/Pod/Simple/HTMLBatch.pm

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1.687 spring-oxm 5.1.3.RELEASE

1.688 shlex python-libs-2.7.5-86.el7

1.688.1 Available under license:
A. HISTORY OF THE SOFTWARE

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

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

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1.689 libvorbis 1.3.3-8.el7.1
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1.690 ganymed-ssh2 build210

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1.691 jqeury-ui 1.12.1

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1.692 libthai 0.1.14 9.el7

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.
K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.
Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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1.695 openssh 7.4p1 16.el7

1.695.1 Available under license:
diff -up openssh-7.4p1/sftp-server.8.sftp-force-mode openssh-7.4p1/sftp-server.8
--- openssh-7.4p1/sftp-server.8.sftp-force-mode.2016-12-19 05:59:41.000000000 +0100
+++ openssh-7.4p1/sftp-server.8.2017-02-09 10:35:41.926475399 +0100
@@ -38,6 +38,7 @@
   .Op Fl P Ar blacklisted_requests
   .Op Fl p Ar whitelisted_requests
   .Op Fl u Ar umask
+   .Op Fl m Ar force_file_perms
   .Ek
   .Nm
   .Fl Q Ar protocol_feature
@@ -138,6 +139,10 @@
   to be applied to newly-created files and directories, instead of the
   user's default mask.
+   .It Fl m Ar force_file_perms
Sets explicit file permissions to be applied to newly-created files instead of the default or client requested mode. Numeric values include: +777, 755, 750, 666, 644, 640, etc. Option -u is ineffective if -m is set.

On some systems,

```
diff -up openssh-7.4p1/sftp-server.c.sftp-force-mode openssh-7.4p1/sftp-server.c
--- openssh-7.4p1/sftp-server.c.sftp-force-mode 2017-02-09 10:22:36.498019921 +0100
+++ openssh-7.4p1/sftp-server.c 2017-02-09 10:35:07.190529959 +0100
@@ -65,6 +65,10 @@ struct sshbuf *oqueue;

 /* Version of client */
 static u_int version;

/* Force file permissions */
+int permforce = 0;
+long permforcemode;
+
/* SSH2_FXP_INIT received */
static int init_done;

@@ -679,6 +683,7 @@ process_open(u_int32_t id)

 /* Version of client */
 static u_int version;

/* Force file permissions */
+int permforce = 0;
+long permforcemode;
+
/* SSH2_FXP_INIT received */
static int init_done;

Attrib a;
char *name;
int r, handle, fd, flags, mode, status = SSH2_FX_FAILURE;
+mode_t old_umask = 0;

if ((r = sshbuf_get_cstring(iqueue, &name, NULL)) != 0 ||
    (r = sshbuf_get_u32(iqueue, &pflags)) != 0) /* portable flags */
@@ -688,6 +693,10 @@ process_open(u_int32_t id)

debug3("request %u: open flags %s", id, pflags);
flags = flags_from_portable(pflags);
mode = (a.flags & SSH2_FILEXFER_ATTR_PERMISSIONS) ? a.perm : 0666;
+if (permforce == 1) { /* Force perm if -m is set */
+    mode = permforcemode;
+    old_umask = umask(0); /* so umask does not interfere */
+}
logit("open \"%s\" flags %s mode 0%o",
    name, string_from_portable(pflags), mode);
if (readonly &&
@@ -709,6 +718,8 @@ process_open(u_int32_t id)
}
}

+if (permforce == 1)
+(void) umask(old_umask); /* restore umask to something sane */
if (status != SSH2_FX_OK)
send_status(id, status);
free(name);
@@ -1490,7 +1501,7 @@ sftp_server_usage(void)
 fprintf(stderr,
      "usage: %s [-ehR] [-d start_directory] [-f log_facility] 
      "[-l log_level][nf[-P blacklisted_requests] ]
-    "[-p whitelisted_requests] [-u umask]"n"
+    "[-p whitelisted_requests] [-u umask] [-m force_file_perms]"n"
      "%s -Q protocol_feature\n",
    __progname, __proiname);
 exit(1);
@@ -1516,7 +1527,7 @@ sftp_server_main(int argc, char **argv,
 pw = pwcopy(user_pw);

 while (!skipargs & & (ch = getopt(argc, argv,
-    "df:fp:Qqu:cehR") != -1) { } 
+    "df:fp:Qqu:m:cehR") != -1) { } 
 switch (ch) {
 case 'Q':
 if (strcasecmp(optarg, "requests") != 0) { 
@@ -1576,6 +1587,15 @@ sftp_server_main(int argc, char **argv,
            (void)umask((mode_t)mask);
            break;
        +case 'm':
+        +/* Force permissions on file received via sftp */
+        +permforce = 1;
+        +permforcemode = strtol(optarg, &cp, 8);
+        +if (permforcemode < 0 || permforcemode > 0777 ||
+            *cp != '0' || (permforcemode == 0 &&
+            errno != 0))
+            fatal("Invalid file mode \"%s\", optarg);
+        +break;
+        case 'h':
 default:
        sftp_server_usage();
        break;
This package was debianized by Jamie Beverly <soupboy@sourceforge.net> on
Wed, 13 Jan 2010 01:08:49 +0300.

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/*$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $*/

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 */
* OPENBSD ORIGINAL: sys/sys/poll.h */

#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN0x0001
#define POLLOUT0x0004
#define POLLERR0x0008
#if 0
  /* the following are currently not implemented */
  #define POLLPRI0x0002
  #define POLLHUP0x0010
  #define POLLNVAL0x0020
  #define POLLRD0x0040
  #define POLLNORMPOLLRD0
  #define POLLWR0 POLLOUT
  #define POLLRDBAND0x080
  #define POLLWRBAND0x0100
#endif

#define INFTIM(-1)/* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#ifndef HAVE_POLL && !defined(HAVE_POLL_H)
#endif

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*
#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif

#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

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*/

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDND 0x0040
#define POLLNORMPOLLRDND
#define POLLWRNORM POLLOUT
#define POLLRDND 0x0080
#define POLLWRND 0x0100
*/
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* Rafael D'Halleweyn - 2011-06-05 18:56:24 EDT
* Jan-Pieter Cornet (johnpc) - 2012-03-23 03:25:52 PDT
* chrystn@fsfe.org
* dfberger@users.noreply.github.com
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*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w)(*(_int*)(&w)) /* convert union wait to int */
#define WIFEXITED(w)!(((_W_INT(w)) & 0377))
#define WIFSTOPPED(w)(((_W_INT(w)) & 0100)
#define WIFSIGNALED(w)!WIFEXITED(w) && !WIFSTOPPED(w)
#define WEXITSTATUS(w)(((_W_INT(w) >> 8) & 0377)
#define WTERMSIG(w)((WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w)((WIFSIGNALED(w) ? WEXITSTATUS(w) & WCOREFLAG) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int pid, int *statut, int flags);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w)	(*(int*)&(w))	/* convert union wait to int */
#define WIFEXITED(w)	(!(_W_INT(w)) & 0377)
#define WIFSTOPPED(w)	((_W_INT(w)) & 0100)
#define WIFSIGNALED(w)	(!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w)	(int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w)	(int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG	0x80
#define WCOREDUMP(w) 	((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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Additional -

File: PSReadLine

https://github.com/Izybkr/PSReadLine

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File: HashTables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PackageManagement
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File: PSReadLine
---------------------------------------------
https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File: HashTables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.700 javascript-loglevel 1.2.0

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1.701 system-collections-concurrent
powershell-preview-7.0.0_preview.6-1

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Additional -

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File: PSReadLine

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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

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io.netty.util.internal.Hidden$NettyBlockHoundIntegration

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<url>https://github.com/franz1981</url>
</developer>

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</prerequisites>

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<java.test.version>1.8</java.test.version>
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<junit.version>4.12</junit.version>
<guava-testlib.version>21.0</guava-testlib.version>
</properties>

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* /opt/ws_local/PERMITS_SQL/1080180774_1597578958.83/0/netty-common-4-1-50-final-sources-jar/io/netty/util/internal/logging/FormattingTuple.java
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* /opt/ws_local/PERMITS_SQL/1080180774_1597578958.83/0/netty-common-4-1-50-final-sources-jar/io/netty/util/concurrent/AbstractScheduledEventExecutor.java
* /opt/ws_local/PERMITS_SQL/1080180774_1597578958.83/0/netty-common-4-1-50-final-sources-jar/io/netty/util/AsyncMapping.java
* /opt/ws_local/PERMITS_SQL/1080180774_1597578958.83/0/netty-common-4-1-50-final-sources-jar/io/netty/util/HashingStrategy.java
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  * /opt/ws_local/PERMITS_SQL/1080180774_1597578958.83/0/netty-common-4-1-50-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandler.java
  * /opt/ws_local/PERMITS_SQL/1080180774_1597578958.83/0/netty-common-4-1-50-final-sources-jar/io/netty/util/DomainNameMappingBuilder.java

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* /opt/ws_local/PERMITS_SQL/1080180774_1597578958.83/0/netty-common-4-1-50-final-sources-jar/io/netty/util/internal/svm/PlatformDependent0Substitution.java
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you
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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

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You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

BEGIN{
FS="\";
print "/* ==> Do not modify this file!!  " \
" -*- buffer-read-only: t -*- vi" \
":set ro:"
print "   It is created automatically by copying.awk."
print " Modify copying.awk instead. <==" ";
print ""
print "#$include \"defs.h\""
print "#$include \"command.h\""
print "#$include \"gdbcmd.h\""
print ""
print "static void show_copying_command (char *, int);"
print ""
print "static void show_warranty_command (char *, int);"
print ""
print "void _initialize_copying (void);"
print ""
print "static void";
print "show_copying_command (char *ignore, int from_tty);";}
```c
print "\{\n};

NR == 1; \/^\}*15\. Disclaimer of Warranty\[ ]*$/
if ($0 ~ //)
{
  printf " printf_filtered (\"\n\");\n";
}
else if ($0 !~ \/^\}*15\. Disclaimer of Warranty\[ ]*$/)
{
  printf " printf_filtered (\"\n";
  for (i = 1; i < NF; i++)
  printf "\%s\n", $i;
  printf "\%s\n\")\n", $NF;
}
\/^\}*15\. Disclaimer of Warranty\[ ]*$/
print "]\};"
print "\"
print "static void"
print "show_warranty_command (char *ignore, int from_tty)"
print "\{\n};

END\{ 
print "\TECTED TERMS AND CONDITIONS\[ ]*$/
if (! ($0 ~ \/^\}*END OF TERMS AND CONDITIONS\[ ]*$/))
{
  printf " printf_filtered (\"\n";
  for (i = 1; i < NF; i++)
  printf "\%s\n", $i;
  printf "\%s\n\")\n", $NF;
}

END{ 
print "\}\};"
print "\"
print "\_void"
print "\_initialize_copying (void)\";
print "\};
print " add_cmd ("copying", no_set_class, show_copying_command,\"
print " Conditions for redistributing copies of GDB.\")\";
print " add_cmd ("warranty", no_set_class, show_warranty_command,\"
print " Various kinds of warranty you do not have.\")\";
print " add_info ("copying", show_copying_command,\"
print " Conditions for redistributing copies of GDB.\")\";
print " add_info ("warranty", show_warranty_command,\"
print " For old-timers, allow "info copying", etc. */\";
print " add_info ("copying", show_copying_command,\"
print " Conditions for redistributing copies of GDB.\")\";
print " add_info ("warranty", show_warranty_command,\";
```
print " _("Various kinds of warranty you do not have.")");
print ");
}

@node Library Copying
@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License
@center Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence the
version number 2.1.]
@end display

@appendixsubsec Preamble

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

This license, the Lesser General Public License, applies to some
specially designated software---typically libraries---of the Free
Software Foundation and other authors who decide to use it. You can use
it too, but we suggest you first think carefully about whether this
license or the ordinary General Public License is the better strategy to
use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of it
in new free programs; and that you are informed that you can do these
things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.
For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.
For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modificationolley.)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

@enumerate a
@item
The modified work must itself be a software library.

@item
You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

As an exception to the Sections above, you may also combine or link a ``work that uses the Library'' with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library'', as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

- Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.
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@end enumerate

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@end iftex
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@end center END OF TERMS AND CONDITIONS
@end ifinfo

@page
@appendixsubsec How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.
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`Frob' (a library for tweaking knobs) written by James Random Hacker.

Ty Coon, President of Vice

That's all there is to it!

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
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When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.
Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

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

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

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#! /usr/bin/env python

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"""copyright.py

This script updates the list of years in the copyright notices in most files maintained by the GDB project.

Usage: cd src/gdb &&& python copyright.py

Always review the output of this script before committing it!
A useful command to review the output is:

% filterdiff -x *.c -x *.cc -x *.h -x *.exp updates.diff

This removes the bulk of the changes which are most likely to be correct.
"""

import datetime
import os
import os.path
import subprocess

def get_update_list():

Return the list of files to update.

Assumes that the current working directory when called is the root of the GDB source tree (NOT the gdb/ subdirectory!). The names of the files are relative to that root directory.

result = []
for gdb_dir in ('gdb', 'sim', 'include/gdb'):
    for root, dirs, files in os.walk(gdb_dir, topdown=True):
        for dirname in dirs:
            reldirname = "%s/%s" % (root, dirname)
            if (dirname in EXCLUDE_ALL_LIST
                or reldirname in EXCLUDE_LIST
                or reldirname in NOT_FSF_LIST
                or reldirname in BY_HAND):
                # Prune this directory from our search list.
                dirs.remove(dirname)
            for filename in files:
                relpath = "%s/%s" % (root, filename)
                if (filename in EXCLUDE_ALL_LIST
                    or relpath in EXCLUDE_LIST
                    or relpath in NOT_FSF_LIST
                    or relpath in BY_HAND):
                    # Ignore this file.
                    pass
                else:
                    result.append(relpath)

return result

def update_files(update_list):
    """Update the copyright header of the files in the given list.

    We use gnulib's update-copyright script for that.
    """

    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'

    # Perform the update, and save the output in a string.
    update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
    update_cmd += update_list

    p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                        stderr=subprocess.PIPE, sh=True)
    update_out = p.communicate()[0]
# Process the output. Typically, a lot of files do not have a copyright notice :-(. The update-copyright script prints a well defined warning when it did not find the copyright notice. For each of those, do a sanity check and see if they may in fact have one. For the files that are found not to have one, we filter the line out from the output, since there is nothing more to do, short of looking at each file and seeing which notice is appropriate. Too much work! (~4,000 files listed as of 2012-01-03).

```python
update_out = update_out.splitlines()
warning_string = ': warning: copyright statement not found'
warning_len = len(warning_string)

for line in update_out:
    if line.endswith('n'):
        line = line[:-1]
    if line.endswith(warning_string):
        filename = line[:-warning_len]
        if may_have_copyright_notice(filename):
            print line
        else:
            # Unrecognized file format. !?!
            print "*** " + line

def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.

    The filename is relative to the root directory.
    This function assumes that the current working directory is that root directory.

    The algorithm is fairly crude, meaning that it might return some false positives. I do not think it will return any false negatives... We might improve this function to handle more complex cases later...
    """

    # For now, it may have a copyright notice if we find the word "Copyright" at the (reasonable) start of the given file, say 50 lines...
    MAX_LINES = 50

    fd = open(filename)

    lineno = 1
    for line in fd:
        if 'Copyright' in line:
            return True
```
lineno += 1
if lineno > 50:
    return False
return False

def main():
    """The main subprogram.""
    if not os.path.isfile("gnulib/import/extra/update-copyright")::
        print "Error: This script must be called from the gdb directory."
    root_dir = os.path.dirname(os.getcwd())
    os.chdir(root_dir)

    update_list = get_update_list()
    update_files(update_list)

    # Remind the user that some files need to be updated by HAND...
    if BY_HAND:
        print
        print "\033[31mREMINDER: The following files must be updated by hand." \
        "\033[0m"
        for filename in BY_HAND + MULTIPLE_COPYRIGHT_HEADERS:
            print "  ", filename

# Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the script.
#
# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = (  
    'gdb/CONTRIBUTE',  
    'gdb/gnulib'  
)

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere. Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all files named COPYING to be left untouched.

EXCLUDE_ALL_LIST = (
    "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",
    "fdl.texi", "gpl.texi", "aclocal.m4",
)

# The list of files to update by hand.
BY_HAND = (  
    # These files are sensitive to line numbering.
    "gdb/testsuite/gdb.base/step-line.inp",
    "gdb/testsuite/gdb.base/step-line.c",
)

# Files containing multiple copyright headers. This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (  
    "gdb/doc/gdb.texinfo",
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    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
    "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
    "sim/arm/arminit.c",
    "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
    "sim/common/cgen-accfp.c",
    "sim/erc32/sis.h", "sim/erc32/erc32.c", "sim/erc32/func.c",
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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Ty Coon, President of Vice

That's all there is to it!

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%result_floats %result_converted %result_converted_errors
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import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed
// json blob.
type CheckResponse struct {
    Expiration  time.Time `json:"expiration"
    Token       string    `json:"token"
    MaxEngines  int       `json:"maxEngines"
    ScanningEnabled bool    `json:"scanningEnabled"
    Type        string    `json:"licenseType"
    Tier        string    `json:"tier"
}

// IssuedLicense represents an issued license
type IssuedLicense struct {
    KeyID         string `json:"key_id"
    PrivateKey    string `json:"private_key"
    Authorization string `json:"authorization"
}

// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
    if l.KeyID == "" {
        return false, "empty key_id"
    }

    if l.PrivateKey == "" {
        return false, "empty private_key"
    }

    if l.Authorization == "" {
        return false, "empty authorization"
    }

    return true, ""
}

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package licensing

import {
    "context"
    "crypto/hmac"
    "crypto/sha256"
    "encoding/base64"
    "encoding/json"
    "fmt"
    "time"

    "github.com/docker/libtrust"
    "github.com/docker/licensing/lib/errors"
    "github.com/docker/licensing/lib/go-clientlib"
    "github.com/docker/licensing/model"
}

func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {
    url := c.baseURI
    url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)

    license := new(model.IssuedLicense)
    if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
        return nil, err
    }

    return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
    authorization, err := c.getAuthorization(ctx, license)
    if err != nil {
        return nil, err
    }

    // TODO: Mason - replace this parseJWS with a non libtrust lib
    signature, err := libtrust.ParseJWS(authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license parse JWS failed")
    }

    keys, err := signature.Verify()
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license signature verification failed")
    }

    keyCnt := len(keys)
    if keyCnt != 1 {
        err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
        return nil, errors.WithStack(err).With(errors.Fields{
            "key_id": keyID,
        })
    }

    key := keys[0]

    if !c.recognizedSigningKey(key) {
        return nil, errors.New("unrecognized signing key")
    }

    payload, err := signature.Payload()
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "malformed signature payload")
    }

    checkRes := new(model.CheckResponse)
err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    })
}

return checkRes, nil

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if key.KeyID() == publicKey.KeyID() {
            return true
        }
    }
    return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": license.KeyID,
        }, "decoding license authorization failed")
    }
    return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the message with the privateKey via GenerateToken) with the purpose of authenticating the validity of both the message and the private key of the person who generated the token.
func checkToken(message, token, privateKey string) error {
    tokenBytes, err := base64.URLEncoding.DecodeString(token)
    if err != nil {
        return nil
    }
    // ...
return errors.Wrap(err, errors.Fields{"token": token})
}

generatedToken, err := generateToken(message, privateKey)
if err != nil {
    return errors.Wrap(err, errors.Fields{"token": token})
}

generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
if err != nil {
    return errors.Wrap(err, errors.Fields{"token": token})
}

if !hmac.Equal(tokenBytes, generatedBytes) {
    return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
}

return nil

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
    if err != nil {
        return "", errors.Wrap(err, errors.Fields{"msg": message})
    }

    h := hmac.New(sha256.New, key)
    h.Write([]byte(message))
    return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

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package engine

import (
    "bytes"
    "encoding/json"
    "strings"
    "testing"
    "time"

    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
    "gotest.tools/assert"
    is "gotest.tools/assert/cmp"
)

func TestSubscriptionContextWrite(t *testing.T) {
cases := []struct {
    context  formatter.Context
    expected string
}{
    // Errors
    {
        context {Format: "{{InvalidFunction}}"},
        'Template parsing error: template: :1: function "InvalidFunction" not defined
    },
    }
}
Table format:

```
<table>
<thead>
<tr>
<th>NUM</th>
<th>OWNER</th>
<th>PRODUCT ID</th>
<th>EXPIRES</th>
<th>PRICING COMPONENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>owner1</td>
<td>productid1</td>
<td>2020-01-01 10:00:00 +0000 UTC</td>
<td>compstring</td>
</tr>
<tr>
<td>2</td>
<td>owner2</td>
<td>productid2</td>
<td>2020-01-01 10:00:00 +0000 UTC</td>
<td>compstring</td>
</tr>
</tbody>
</table>
```

```
| 1: License Name: name1 | Quantity: 10 nodes | Expiration date: 2020-01-01 |
| 2: License Name: name2 | Quantity: 20 nodes | Expiration date: 2020-01-01 |
```

```
<table>
<thead>
<tr>
<th>OWNER</th>
</tr>
</thead>
<tbody>
<tr>
<td>owner1</td>
</tr>
<tr>
<td>owner2</td>
</tr>
</tbody>
</table>
```

```
<table>
<thead>
<tr>
<th>OWNER</th>
</tr>
</thead>
<tbody>
<tr>
<td>owner1</td>
</tr>
<tr>
<td>owner2</td>
</tr>
</tbody>
</table>
```

Raw Format:

```
license: id1
name: name1
owner: owner1
components: compstring

license: id2
name: name2
owner: owner2
components: compstring
```
expiration, _ := time.Parse(time.RFC3339, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num: 1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID: "id1",
                Name: "name1",
                ProductID: "productid1",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",
                        Value: 10,
                    },
                },
                ComponentsString: "compstring",
            },
        },
        {
            Num: 2,
            Owner: "owner2",
            Subscription: model.Subscription{
                ID: "id2",
                Name: "name2",
                ProductID: "productid2",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",
                        Value: 20,
                    },
                },
                ComponentsString: "compstring",
            },
        },
    }
out := &bytes.Buffer{}  
testcase.context.Output = out  
err := SubscriptionsWrite(testcase.context, subscriptions)  
if err != nil {  
    assert.Error(t, err, testcase.expected)  
} else {  
    assert.Check(t, is.Equal(testcase.expected, out.String()))  
}  

func TestSubscriptionContextWriteJSON(t *testing.T) {  
    expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")  
    subscriptions := []licenseutils.LicenseDisplay{  
        {  
            Num:   1,  
            Owner: "owner1",  
            Subscription: model.Subscription{  
                ID:        "id1",  
                Name:      "name1",  
                ProductID: "productid1",  
                Expires:   &expiration,  
                PricingComponents: model.PricingComponents{  
                    &model.SubscriptionPricingComponent{  
                        Name:  "nodes",  
                        Value: 10,  
                    },  
                },  
                ComponentsString: "compstring",  
            },  
            {  
                Num:   2,  
                Owner: "owner2",  
                Subscription: model.Subscription{  
                    ID:        "id2",  
                    Name:      "name2",  
                    ProductID: "productid2",  
                    Expires:   &expiration,  
                    PricingComponents: model.PricingComponents{  
                        &model.SubscriptionPricingComponent{  
                            Name:  "nodes",  
                        },  
                    },  
                    ComponentsString: "compstring",  
                },  
            },  
        }
    }
}
Value: 20,
],
],
],
ComponentsString: "compstring",
],
]
eXpectedJSONs := []map[string]interface{}{
{
"Owner": "owner1",
"ComponentsString": "compstring",
"Expires": "2020-01-01T10:00:00Z",
"DockerID": "",
"Eusa": nil,
"ID": "id1",
"Start": nil,
"Name": "name1",
"Num": float64(1),
"PricingComponents": []interface{}{
map[string]interface{}{
"name": "nodes",
"value": float64(10),
},
},
"ProductID": "productid1",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01",
],
{
"Owner": "owner2",
"ComponentsString": "compstring",
"Expires": "2020-01-01T10:00:00Z",
"DockerID": "",
"Eusa": nil,
"ID": "id2",
"Start": nil,
"Name": "name2",
"Num": float64(2),
"PricingComponents": []interface{}{
map[string]interface{}{
"name": "nodes",
"value": float64(20),
},
},
"ProductID": "productid2",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01"
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name2
Quantity: 20 nodes
Expiration date: 2020-01-01",
]

out := &bytes.Buffer{
err := SubscriptionsWrite(formatter.Context{Format: `{{json .}}`, Output: out}, subscriptions)
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
var m map[string]interface{}
if err := json.Unmarshal([]byte(line), &m); err != nil {
t.Fatal(err)
}
assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}

func TestSubscriptionContextWriteJSONField(t *testing.T) {
subscriptions := []licenseutils.LicenseDisplay{
{Num: 1, Owner: "owner1"},
{Num: 2, Owner: "owner2"},
}
out := &bytes.Buffer{
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
var s string
if err := json.Unmarshal([]byte(line), &s); err != nil {
t.Fatal(err)
}
assert.Check(t, is.Equal(subscriptions[i].Owner, s))
}
}

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// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
    switch source {
    case formatter.TableFormatKey:
        if quiet {
            return defaultSubscriptionsQuietFormat
        }
        return defaultSubscriptionsTableFormat
    case formatter.RawFormatKey:
        if quiet {
            return `license: {{.ID}}`
        }
        return `license: {{.ID}}
name: {{.Name}}
owner: {{.Owner}}
components: {{.ComponentsString}}`
    }
    return formatter.Format(source)
// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
    render := func(format func(subContext formatter.SubContext) error) error {
        for _, sub := range subs {
            licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
            if err := format(licenseCtx); err != nil {
                return err
            }
        }
        return nil
    }
    licenseCtx := licenseContext{
        Header: map[string]string{
            "Num":               numHeader,
            "Owner":             ownerHeader,
            "Name":              licenseNameHeader,
            "ID":                idHeader,
            "DockerID":          dockerIDHeader,
            "ProductID":         productIDHeader,
            "ProductRatePlan":   productRatePlanHeader,
            "ProductRatePlanID": productRatePlanIDHeader,
            "Start":             startHeader,
            "Expires":           expiresHeader,
            "State":             stateHeader,
            "Eusa":              eusaHeader,
            "ComponentsString":  pricingComponentsHeader,
        }
    return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
    formatter.HeaderContext
    trunc bool
    l    licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
    return formatter.MarshalJSON(c)
}

func (c *licenseContext) Num() int {
    return c.l.Num
}

func (c *licenseContext) Owner() string {
    return c.l.Owner
}
func (c *licenseContext) ComponentsString() string {
    return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
    return c.l.String()
}

func (c *licenseContext) Name() string {
    return c.l.Name
}

func (c *licenseContext) ID() string {
    return c.l.ID
}

func (c *licenseContext) DockerID() string {
    return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
    return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
    return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
    return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
    return c.l.Expires
}

func (c *licenseContext) State() string {
    return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
    return c.l.Eusa
}
func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
    // Dereference the pricing component pointers in the pricing components
    // so it can be rendered properly with the template formatter

    var ret []model.SubscriptionPricingComponent
    for _, spc := range c.l.PricingComponents {
        if spc == nil {
            continue
        }
        ret = append(ret, *spc)
    }
    return ret
}

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File: PSReadLine
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https://github.com/lzybkr/PSReadLine

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---------------------------------------------
File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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Mon Aug 17 10:11:49 PDT 2020 Martin Fujitani <martinf@cisco.com>

1.771 hibernate-core 5.3.7.Final

1.772 markdig 0.18.0

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1.773 atk 1.30.0

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

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

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

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

Note that it is possible for a library to be covered by the ordinary
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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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single nxt200x frontend driver.

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

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M. Welsh, 6 July 1996

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A "covered work" means either the unmodified Program or a work based on the Program.

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The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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<one line to give the program's name and a brief idea of what it does.>
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1.795 javax-servlet-jsp-api 2.0

1.795.1 Available under license:
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1.796 mesa 18.0.5-3.el7
1.796.1 Available under license:
/* Legal characters in GLSL are:

* Identifier characters:
*     Letters a-z
*     Letters A-Z
*     Underscore
*     Numbers 0-9

* Punctuation:
*     Period, plus, dash, slash, asterisk, percent, angled brackets,
*     square brackets, parentheses, braces, caret, vertical bar,
*     ampersand, tilde, equals, exclamation point, colon, semicolon,
*     comma, and question mark

* Special:
*     Number sign (as used in preprocessor)

* White space:
* Space, horizontal tab, vertical tab, form feed, carriage-return, and line-feed.

* [GLSL Language Specification 4.30.6, section 3.1]

* In this file, we test each of these in turn as follows:

* Identifier characters: All pass through unchanged
* Punctuation: All pass through unchanged
* Special: Empty directive replaced with blank line
* Line continuation merges two lines, then a blank line
* Whitespace: 4 horizontal space characters each replaced with space
* 2 newline characters each replaced with a newline

*/

abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKMLNOPQRSTUVWXYZ
_ 
0123456789
. + - /
* % < >
[ ] ( ) {
}
^ |
& ~ == ! :
; . , ? # \ . ..
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#    Ian Romanick <idr@us.ibm.com>

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Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:50 PM
To: Tom Callaway <tcallawa@redhat.com>
CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,
Jorge

-----

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:49 PM
To: Jorge Jimenez <iryoku@gmail.com>
CC: jorge@iryoku.com
Subject: Re: Question about Mesa MLAA license

On 01/08/2013 12:39 PM, Jorge Jimenez wrote:
> Hi Tom,
> 
> What we meant with that is that we made an exception for clause 2.
> Instead of clause 2, in the case of the Mesa project, you have to name
> the technique Jimenez's MLAA in the config options of Mesa. We did that
> just to allow them to solve license issues. This exception should be for
> the Mesa project, and any project using Mesa, like Fedora.
> 
> We want to widespread usage of our MLAA, so we want to avoid any kind of
> license complications. Hope current one is good for Fedora, if not
> please tell, and we'll see what we can do!

Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:
"Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

Specifically, if this is done as part of documentation included with
Mesa, is that sufficient to meet clause 2 even if the Mesa config option
is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological
anti-aliassing based on Jimenez\' MLAA. 0 to disable, 8 for default
quality". Is this in compliance with your exception?
Hi Tom,

What we meant with that is that we made an exception for clause 2. Instead of clause 2, in the case of the Mesa project, you have to name the technique Jimenez's MLAA in the config options of Mesa. We did that just to allow them to solve license issues. This exception should be for the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,
Jorge

Thanks again,
~tom

==
Fedora Project

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:

* 2. Redistributions in binary form must reproduce the following statement:
  *
  * "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia, Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
  *
  * Only for use in the Mesa project, this point 2 is filled by naming the
* technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal

==
Fedora Project

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html lang="en">
<head>
<meta http-equiv="content-type" content="text/html; charset=utf-8">
<title>License / Copyright Information</title>
<link rel="stylesheet" type="text/css" href="mesa.css">
</head>
<body>
<div class="header">
<h1>The Mesa 3D Graphics Library</h1>
</div>

<iframe src="contents.html"></iframe>
<div class="content">
<h1>Disclaimer</h1>
<p>
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This allows integration with the XFree86, Xorg and DRI projects.
</p>

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</p>

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1.797 patch 2.7.1-10.el7_5

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1.803 backbone-associations 0.6.2

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The MariaDB packages were initially made by http://ourdelta.org/, and are now managed by the MariaDB development team, maria-developers@lists.launchpad.net

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functions (ten lines or less in length), then the use of the object
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--echo '#---------------------BS_STVARS_040_01----------------------#'

# Variable Name: license
# Scope: Global
# Access Type: Static
# Data Type: string
# Creation Date: 2008-02-07
# Author : Sharique Abdullah
# Description: Test Cases of Dynamic System Variable license
# that checks the behavior of this variable in the following ways
#  * Value Check
#  * Scope Check
#  server-system-variables.html
# Displaying default value
SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--echo '#---------------------BS_STVARS_040_02----------------------#'
# Check if Value can set

```
--error ER_INCORRECT_GLOBAL_LOCAL_VAR
SET @@GLOBAL.license=1;
--echo Expected error 'Read only variable'
```

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

```
--echo '---------------------BS_STVARS_040_03----------------------#
# Check if the value in GLOBAL Table matches value in variable #

SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected
```

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

```
--echo '---------------------BS_STVARS_040_04----------------------#
# Check if accessing variable with and without GLOBAL point to same variable#
```

SELECT @@license = @@GLOBAL.license;
--echo 1 Expected

```
--echo '---------------------BS_STVARS_040_05----------------------#
# Check if license can be accessed with and without @@ sign#
```

SELECT COUNT(@@license);
--echo 1 Expected

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@local.license);
--echo Expected error 'Variable is a GLOBAL variable'

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@SESSION.license);
--echo Expected error 'Variable is a GLOBAL variable'

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--Error ER_BAD_FIELD_ERROR
SELECT license = @@SESSION.license;
--echo Expected error 'Readonly variable'

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'###---------------------BS_STVARS_040_01----------------------###'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected

'###---------------------BS_STVARS_040_02----------------------###'
SET @@GLOBAL.license=1;
ERROR HY000: Variable 'license' is a read only variable
Expected error 'Read only variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected

'###---------------------BS_STVARS_040_03----------------------###'
SELECT @@GLOBAL.license = VARIABLE_VALUE FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES WHERE VARIABLE_NAME='license';
@@GLOBAL.license = VARIABLE_VALUE
1
1 Expected
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
COUNT(VARIABLE_VALUE)
1
1 Expected
'#---------------------BS_STVARS_040_04----------------------#'
SELECT @@license = @@GLOBAL.license;
@@license = @@GLOBAL.license
1
1 Expected
'#---------------------BS_STVARS_040_05----------------------#'
SELECT COUNT(@@license);
COUNT(@@license)
1
1 Expected
SELECT COUNT(@@SESSION.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@SESSION.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
SELECT license = @@SESSION.license;
ERROR 42S22: Unknown column 'license' in 'field list'
Expected error 'Readonly variable'

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Version 3, 29 June 2007

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1.813 bzip2 1.0.5

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

--------------------------------------------------------------------------
use strict;
use lib 't/lib';
use MBTest;
use DistGen;

plan 'no_plan';

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

#-------------------------------------------#
# Create test distribution
#-------------------------------------------#

{
    my $dist = DistGen->new(
        name => 'Simple::Name',
        version => '0.01',
        license => 'perl'
    );

    $dist->regen;
    $dist->chdir_in;

    my $mb = $dist->new_from_context();
    isa_ok( $mb, "Module::Build" );
    is( $mb->license, 'perl',
        "license 'perl' is valid"
    );

    my $meta = $mb->get_metadata( fatal => 0 );

    is( $meta->{license} => 'perl', "META license will be 'perl'" );
    is( $meta->{resources}{license}, "http://dev.perl.org/licenses/",
        "META license URL is correct"
    );

    }


my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'VaporWare'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'VaporWare',
   "license 'VaporWare' is valid" );

my $meta = $mb->get_metadata( fatal => 0 );
is( $meta->{license} => 'unrestricted', "META license will be 'unrestricted'" );
is( $meta->{resources}{license}, "http://example.com/vaporware/",
   "META license URL is correct" );
}

# Test with alpha number
# vim:ts=2:sw=2:et:sta:sts=2
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Version 1, February 1989

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<signature of Ty Coon>, 1 April 1989
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---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.'"
built_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
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Additional -
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File: PSReadLine
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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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/*
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 *
 */

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>
//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f) {}
private:
    split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href="" << (p.root / p.file).string() << "">"" << p.file.string() << "</a>";
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
    j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output."
    }
std::runtime_error e(msg);
boost::throw_exception(e);

os <<
  "<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
  "<html>
  "<head>
  "<title>Boost Licence Dependency Information</title>
  "<body>
  "<H1>Boost Licence Dependency Information</H1>
  "<H2>Contents</h2>
  "<pre><a href="#input">Input Information</a>
  "<a href="#summary">Licence Summary</a>
  "<a href="#details">Licence Details</a>
  "<a href="#files">Files with no recognised license</a>
  "<a href="#authors">Files with no recognised copyright holder</a>
  "Moving to the Boost Software License...
  "<a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
  "<a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
  "<a href="#not-to-bsl">Files that can <b>NOT</b> be moved to the Boost Software License</a>
  "<a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>
  "<a href="#copyright">Copyright Holder Information</a>
  "</pre>
  "</body>
";
// // input Information:
//
os << "<a name="input"></a><h2>Input Information</h2>
if(m_scan_mode)
oos << "<P>The following files were scanned for boost dependencies:<BR>"
else
oos << "<P>The following Boost modules were checked:<BR>"

std::list< std::string >::const_iterator si = m_module_list.begin();
std::list< std::string >::const_iterator sj = m_module_list.end();
while(si != sj)
{
oos << *si << "<BR>";
++si;
}
oos << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></p>";

// // extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex(
    "^[[:blank:]]*#\[[:blank:]]*define\[[:blank:]]*BOOST_VERSION\[[:blank:]]*([\(\d+])\);
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
oos << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100
      << "</p>\n";
}

// // output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    // // start with the summary:
    //
Licence Summary

This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files <a href="#" << make_link_target(licenses.first[i->first].license_name) << "> (see details)</a>";

++i;
}

// and now the details:

//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;

This license applies to the following " << i->second.files.size() << " files:";}
std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
    os << split_path(m_boost_path, *m) << "<br>
    ++m;
}
os << "</p></BLOCKQUOTE>\n";
}
else
{
    os << "<p>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</p>\n";
os << "<p>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</p>\n";
}
++license_index;
++i;
}

// Output list of files not found to be under license control:
//
// os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2><p>
"<p>The following " << m_unknown_licenses.size() << " files had no recognisable license information:</p>
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
    ++i2;
}
os << "</p></BLOCKQUOTE>";
//
// Output list of files with no found copyright holder:
//
// os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2><p>
"<p>The following " << m_unknown_authors.size() << " files had no recognisable copyright holder:</p>
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
    ++i2;
}
os << "</p></BLOCKQUOTE>";


// Output list of files that have been moved over to the Boost Software License, along with enough information for human verification.

//

os << "Files that can be automatically converted to the Boost Software License:

The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:

if (!m_converted_to_bsl.empty())
{
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
                   ie = m_converted_to_bsl.end();
    int file_num = 1;
    while (i != ie)
    {
        os << "File: <tt>" << split_path(m_boost_path, i->first) << "\n";
        os << "<table border="1">
             <tr>
                <td><pre>
                    " << i->second.first << "</pre></td>
                <td><pre>
                    " << i->second.second << "</pre></td>
            </tr>
        </table>\n";
        ++i;
        ++file_num;
    }
}

// Output list of files that could be moved over to the Boost Software License

"Files that could be converted to the Boost Software License:

The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License, but have not yet been:

i2 = m_can_migrate_to_bsl.begin();
j2 = m_can_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "\n";
    ++i2;
}

// Output list of files that can not be moved over to the Boost Software License

"Files that can NOT be converted to the Boost Software License because we need the permission of more authors:

The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License:";
i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
    ++i2;
}
os << "</p></BLOCKQUOTE>";

// Output list of authors that we need permission for to move to the BSL
//
os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>
<P>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code></P>
<BLOCKQUOTE><P>
std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
                      std::ostream_iterator<std::string>(os, "<br>"));
os << "</p></BLOCKQUOTE>";

// output a table of copyright information:
//
os << "<H2><a name="copyright"></a>Copyright Holder Information</H2><table border="1">
std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << "<td>
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
    efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << " 
        ++fi;
    }
os << "</td><tr>
    ++ad;
}
os << "</table>

// output file dependency information:
//
os << "<H2><a name="depend"></a>File Dependency Information</H2><pre>
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
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```cpp
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
        ::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
        ie = m_converted_to_bsl.end();
    while(i != ie)
    {
        bad_paths.insert(i->first);
        ++i;
    }
    fi = bad_paths.begin();
    efi = bad_paths.end();
    os << "<P>For brevity, only files not under the BSL are shown</P>\n";
}
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
        while(true)
        {
            os << " -> ";
            if(fs::exists(m_boost_path / dep->second))
                os << split_path(m_boost_path, dep->second);
            else if(fs::exists(dep->second))
                os << split_path(fs::path(), dep->second);
            else
                os << dep->second.string();
            if(seen_deps.find(dep->second) != seen_deps.end())
                { os << " <I>(Circular dependency!)</I>"; break; // circular dependency!!!
            }
            seen_deps.insert(dep->second);
            last_dep = dep;
            dep = m_dependencies.find(dep->second);
            if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
        }
    fi = m_copy_paths.begin();
    efi = m_copy_paths.end();
}
```

---

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break;
}

os << "\n";
++fi;
}

os << "</pre></BLOCKQUOTE>\n";

os << "</body></html>\n";

if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ",."
    std::runtime_error e(msg);
    boost::throw_exception(e);
}


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#ifdef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#endif

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#  pragma once
#endif

#include <cstddef>

namespace boost {
    namespace container {
        namespace container_detail {

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
    #pragma once
#endif

#include <cstddef>

namespace boost {
    namespace container {
        namespace container_detail {


template <class T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T, val> type;
};

template<bool C_>
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;
    operator bool() const { return bool_::value; }
};

typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c
{
    typedef T type;
};
template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <bool B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
class false_t { char dummy[2]; }; 
static true_t dispatch(U); 
static false_t dispatch(...); 
static T trigger(); 
public: 
enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) }; }

template<
    bool C 
    , typename T1 
    , typename T2 
>
struct if_c 
{
    typedef T1 type;
};

template<
    typename T1 
    , typename T2 
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1 
    , typename T2 
    , typename T3 
>
struct if_<
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
// : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    { return x.first; }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    { return x; }
template <class T>
struct identity
   : public std::unary_function<T, T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

template <typename T> struct unvoid { typedef T type; }
template <> struct unvoid<void> { struct type { }; }
template <> struct unvoid<const void> { struct type { }; }

}  //namespace container_detail {
}  //namespace container {
}  //namespace boost {

#endif  //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

[article Invalid copyright
[quickbook 1.5
[copyright No year
]

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

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<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $" xmlns:xi="http://www.w3.org/2001/XInclude">
<title>Copyright Test</title>
<articleinfo>
<copyright>
  <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
</copyright>
</articleinfo>
#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
    #pragma once
#endif

#include <cstddef>

namespace boost {
    namespace interprocess {
        namespace ipcdetail {

            template <class T, T val>
            struct integral_constant
            {
                static const T value = val;
                typedef integral_constant<T,val> type;
            };  

            template< bool C_> 
            struct bool_ : integral_constant<bool, C_>
            {
                static const bool value = C_; 
            };

            typedef bool_<true>        true_; 
            typedef bool_<false>       false_; 

        } 
    } 
} 

```c

namespace boost {
    namespace interprocess {
        namespace ipcdetail {

            template <class T, T val>
            struct integral_constant
            {
                static const T value = val;
                typedef integral_constant<T,val> type;
            };

            template< bool C_ >
            struct bool_ : integral_constant<bool, C_>
            {
                static const bool value = C_;  
            };

            typedef bool_<true>   true_;   
            typedef bool_<false>  false_;  

        } 
    } 
} 

```
typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
  char padding[8];
};

template <bool B, class T = void>
struct enable_if_c
{
  typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <class T, class U>
class is_convertible
{
  typedef char true_t;
  class false_t { char dummy[2]; };  
  static true_t dispatch(U);
  static false_t dispatch(...);
  static T trigger();
  public:
    static constexpr bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
  bool C
  , typename T1
  , typename T2
>
struct if_c
{
  typedef T1 type;
};

template<
  typename T1
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
    , typename T2
    , typename T3
>
struct if_<
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;  }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;  }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
The following people hereby grant permission to replace all existing licenses on their contributions to Boost with the Boost Software License, Version 1.0. (boostinspect:nolicense boostinspect:nocopyright)

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--- end ---
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<ulink url="mailto:jeff@crystalclearsoftware.com">Jeff Garland</ulink>
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http://www.boost.org/LICENSE_1_0.txt)
//
//
/////////////////////////////////////////////////////////////////////////////
#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP
#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>
namespace boost {
namespace intrusive {
namespace detail {
typedef char one;
struct two {one _[2];};

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template< bool C_ >
struct bool_
{
    static const bool value = C_; 
};

typedef bool_<true>       true_;
typedef bool_<false>      false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};
template <class T>
struct enable_if_c<false, T> {}; 

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {}; 

template<class F, class Param>
struct apply
{
    typedef typename F::template apply<Param>::type type;
};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; }; 
    static true_t dispatch(U);
    static false_t dispatch(...);
    static const T &trigger();
    public:
        static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
bool C
 , typename T1
 , typename T2
 >
 struct if_c
 {
  typedef T1 type;
 };

template<
   typename T1
 , typename T2
 >
 struct if_c<false,T1,T2>
 {
  typedef T2 type;
 };

template<
   typename C
 , typename T1
 , typename T2
 >
 struct if_
 {
  typedef typename if_c<0 != C::value, T1, T2>::type type;
 };

template<
   bool C
 , typename F1
 , typename F2
 >
 struct eval_if_c
 : if_c<F1,F2>::type
 {
 };

template<
   typename C
 , typename T1
 , typename T2
 >
 struct eval_if
 : if_<C,T1,T2>::type
 {
 };

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T type;
};

#if defined(BOOST_MSVC) || defined(__BORLANDC__)
#define BOOST_INTRUSIVE_TT_DECL __cdecl
#else
#define BOOST_INTRUSIVE_TT_DECL
#endif

#if defined(_MSC_EXTENSIONS) && !defined(__BORLAND__) && !defined(_WIN64) && !defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename T>
struct is_unary_or_binary_function_impl
{
    static const bool value = false;
};

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
template <typename R>
struct is_unary_or_binary_function_impl<R (*)(())>
{
    static const bool value = true;
};

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(...)>
{
    static const bool value = true;
};
#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

#endif // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (__stdcall*)(())>
{
    static const bool value = true;
};

#ifndef _MANAGED
template <typename R>
struct is_unary_or_binary_function_impl<R (__fastcall*)(())>
{
    static const bool value = true;
};
#endif

#endif // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)(())>
{
    static const bool value = true;
};
template <typename R>
struct is_unary_or_binary_function_impl<R (cdecl*)(...)>
{  static const bool value = true;  };

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R(*)(T0)>  
{ static const bool value = true;  };

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R(*)(T0...)>
{ static const bool value = true;  };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0)>  
{ static const bool value = true;  };

#ifndef _MANAGED

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0)>  
{ static const bool value = true;  };

#endif

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1)>
{  static const bool value = true;  };

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>
{  static const bool value = true;  };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>
{  static const bool value = true;  };

#ifdef _MANAGED

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>
{  static const bool value = true;  };

#endif

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1)>
{  static const bool value = true;  };

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1...)>
{  static const bool value = true;  };
#endif

template <typename T>
struct is_unary_or_binary_function_impl<T&>
{  static const bool value = false;  };

template<type T>
struct is_unary_or_binary_function
{  static const bool value = is_unary_or_binary_function_impl<T>::value;  };

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative

template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{
  char c;
  T t;
alignment_of_hack();
};

template <unsigned A, unsigned S>
struct alignment_logic
{
    static const std::size_t value = A < S ? A : S;
};

template< typename T >
struct alignment_of
{
    static const std::size_t value = alignment_logic
        < sizeof(alignment_of_hack<T>) - sizeof(T)
        , sizeof(T)
        >::value;
};

template <typename T, typename U>
struct is_same
{
    typedef char yes_type;
    struct no_type
    {
        char padding[8];
    };

    template <typename V>
    static yes_type is_same_tester(V*, V*);
    static no_type is_same_tester(...);

    static T *t;
    static U *u;

    static const bool value = sizeof(yes_type) == sizeof(is_same_tester(t,u));
};

template< typename T>
struct add_const
{  typedef const T type;  }

template< typename T>
struct remove_const
{  typedef  T type;  }

template<typename T>
struct remove_const<const T>
{  typedef T type;  }
template<typename T>
struct remove_cv
{
    typedef T type;
};

template<typename T>
struct remove_cv<const T>
{
    typedef T type;
};

template<typename T>
struct remove_cv<const volatile T>
{
    typedef T type;
};

template<typename T>
struct remove_cv<volatile T>
{
    typedef T type;
};

template<class T>
struct remove_reference
{
    typedef T type;
};

template<class T>
struct remove_reference<T&>
{
    typedef T type;
};

template<class Class>
class is_empty_class
{
    template <typename T>
    struct empty_helper_t1 : public T
    {
        empty_helper_t1();
        int i[256];
    };

    struct empty_helper_t2
    { int i[256]; };

    public:
    static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

template<std::size_t S>
struct ls_zeros
static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)::value);

};

template<>
struct ls_zeros<0>
{
  static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
  static const std::size_t value = 0;
};

} //namespace detail
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

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//  http://www.boost.org/LICENSE_1_0.txt)


#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>
namespace boost {
namespace intrusive {
namespace detail {
  typedef char one;
  struct two {one _[2];};
template< bool C_ >
struct bool_
{
    static const bool value = C_;
};

typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c
{
    typedef T type;
};
template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};
bool C
 , typename T1
 , typename T2
 >
struct if_c
 { 
  typedef T1 type;
};

template<
   typename T1
 , typename T2
 >
struct if_c<false,T1,T2>
 { 
  typedef T2 type;
};

template<
   typename C
 , typename T1
 , typename T2
 >
struct if_
 { 
  typedef typename if_c<0 != C::value, T1, T2>::type type;
};

template<
   bool C
 , typename F1
 , typename F2
 >
struct eval_if_c
 : if_c<C,F1,F2>::type
 { 
};

template<
   typename C
 , typename T1
 , typename T2
 >
struct eval_if
 : if_<C,T1,T2>::type
 { 
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T type;
};

#if defined(BOOST_MSVC) || defined(__BORLANDC__)
#define BOOST_INTRUSIVE_TT_DECL __cdecl
#else
#define BOOST_INTRUSIVE_TT_DECL
#endif

#if defined(_MSC_EXTENSIONS) && !defined(__BORLAND__) && !defined(_WIN64) && !defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename T>
struct is_unary_or_binary_function_impl
{
    static const bool value = false;
};

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
template <typename R>
struct is_unary_or_binary_function_impl<R (*)(())>
{
    static const bool value = true;
};
template <typename R>
struct is_unary_or_binary_function_impl<R (*)(...)>
{
    static const bool value = true;
};
#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

#endif // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (__stdcall*)(())>
{
    static const bool value = true;
};

#ifndef _MANAGED
template <typename R>
struct is_unary_or_binary_function_impl<R (__fastcall*)(())>
{
    static const bool value = true;
};
#endif

#endif

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)(())>
template <typename R>
struct is_unary_or_binary_function_impl<R __cdecl*>(...) {
    static const bool value = true;
};

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0)> {
    static const bool value = true;
};

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0...)> {
    static const bool value = true;
};

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R __stdcall*(T0)> {
    static const bool value = true;
};

#ifndef _MANAGED
template <typename R, class T0>
struct is_unary_or_binary_function_impl<R __fastcall*(T0)> {
    static const bool value = true;
};
#endif
#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0), T1>  
{ static const bool value = true; };  

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>  
{ static const bool value = true; };  

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS  

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>  
{ static const bool value = true; };  

#ifndef _MANAGED  

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>  
{ static const bool value = true; };  

#endif

#endif

template <typename T>  
struct is_unary_or_binary_function_impl<T&>  
{ static const bool value = false; };  

template <typename T>  
struct is_unary_or_binary_function  
{ static const bool value = is_unary_or_binary_function_impl<T>::value; };  

//boost::alignment_of yields to 10K lines of preprocessed code, so we  
//need an alternative  
template <typename T> struct alignment_of;  

template <typename T>  
struct alignment_of_hack  
{  
    char c;  
    T t;  
};
alignment_of_hack();
};

template <unsigned A, unsigned S>
struct alignment_logic
{
    static const std::size_t value = A < S ? A : S;
};

template< typename T >
struct alignment_of
{
    static const std::size_t value = alignment_logic
        < sizeof(alignment_of_hack<T>) - sizeof(T)
        , sizeof(T)
        >::value;
};

template <typename T, typename U>
struct is_same
{
    typedef char yes_type;
    struct no_type
    {
        char padding[8];
    };

    template <typename V>
    static yes_type is_same_tester(V*, V*);
    static no_type is_same_tester(...);

    static T *t;
    static U *u;

    static const bool value = sizeof(yes_type) == sizeof(is_same_tester(t,u));
};

template<typename T>
struct add_const
{  typedef const T type;   };

template<typename T>
struct remove_const
{  typedef  T type;   };

template<typename T>
struct remove_const<const T>
{  typedef T type;   };
template<typename T>
struct remove_cv
{
    typedef T type;
};

template<typename T>
struct remove_cv<const T>
{
    typedef T type;
};

template<typename T>
struct remove_cv<const volatile T>
{
    typedef T type;
};

template<typename T>
struct remove_cv<volatile T>
{
    typedef T type;
};

template<class T>
struct remove_reference
{
    typedef T type;
};

template<class T>
struct remove_reference<T&>
{
    typedef T type;
};

template<class Class>
class is_empty_class
{
    template<typename T>
    struct empty_helper_t1 : public T
    {
        empty_helper_t1();
        int i[256];
    };

    struct empty_helper_t2
    { int i[256]; };

    public:
    static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

template<std::size_t S>
struct ls_zeros
{ static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<S >>= 1>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

} //namespace detail
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"
    "http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
    xmlns:xi="http://www.w3.org/2001/XInclude">
    <title>Copyright Test</title>
    <articleinfo>
    <copyright>
        <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
    </copyright>
    <copyright>
        <year>2018</year> <holder>Joe Blow, John Coe</holder>
    </copyright>
    <copyright>
        <year>1977</year> <year>1985</year> <holder>Someone else</holder>
    </copyright>
    </articleinfo>
</article>

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http://www.boost.org/LICENSE_1_0.txt).
--- boost/mpl/print.hpp(revision 83411)
+++ boost/mpl/print.hpp(working copy)
@@ -45,22 +45,21 @@
     : mpl::identity<T>
 #if defined(__MWERKS__)
     , aux::print_base
-#endif
+#endif
 
{ 
#if defined(BOOST_MSVC)
 enum { n = sizeof(T) + -1 }; 
#endif
#eldefd defined(__MWERKS__)
 void f(int);
-#else
- enum { 
- n = 
-# if defined(__EDG_VERSION__)
- aux::dependent_unsigned<T>::value > -1 
-# else
- sizeof(T) > -1 
-# endif
-    }; 
-#endif
+#elif defined(__EDG_VERSION__)
+ enum { n = aux::dependent_unsigned<T>::value > -1 }; 
+#elif defined(BOOST_GCC)
+ enum { n1 }; 
+ enum { n2 }; 
+ enum { n = n1 != n2 }; 
+#else
+ enum { n = sizeof(T) > -1 }; 
+#endif
 
#if defined(BOOST_MSVC)
[/
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 http://www.boost.org/LICENSE_1_0.txt).
 ]

[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL’s requirements
for an [@../../../../libs/mpl/doc/refmanual/integral-constant.html Integral Constant type]: that includes a number of
rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that \`\_true\_type\` inherits from \@[../../../../libs/mpl/doc/refmanual/bool.html `boost::mpl::true_`], \`\_false\_type\` inherits from \@[../../../../libs/mpl/doc/refmanual/bool.html `boost::mpl::false_`], and \`\_integral\_constant<T, v>` inherits from \@[../../../../libs/mpl/doc/refmanual/integral-c.html `boost::mpl::integral_c<T,v>`] (provided `T` is not `bool`)

[endsect]

férence

//////////////////////////////////////////////////////////////////////////////
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// // (See accompanying file LICENSE_1_0.txt or copy at
// // http://www.boost.org/LICENSE_1_0.txt)
// // //////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#pragma once
#endif

#include <cstddef>

namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_; 
};

} // namespace ipcdetail
} // namespace interprocess
} // namespace boost

#endif // BOOST_INTERPROCESS_DETAIL_MPL_HPP
typedef bool_<true>        true_;  
typedef bool_<false>       false_;  

typedef true_  true_type;  
typedef false_  false_type;  

typedef char yes_type;  
struct no_type  
{  
    char padding[8];  
};  

template <bool B, class T = void>  
struct enable_if_c {  
    typedef T type;  
};  

template <class T>  
struct enable_if_c<false, T> { };  

template <class Cond, class T = void>  
struct enable_if : public enable_if_c<Cond::value, T> { };  

template <class Cond, class T = void>  
struct disable_if : public enable_if_c<!Cond::value, T> { };  

template <class T, class U>  
class is_convertible  
{  
    typedef char true_t;  
    class false_t { char dummy[2]; };  
    static true_t dispatch(U);  
    static false_t dispatch(...);  
    static T trigger();  
    public:  
        static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);  
};  

template<  
    bool C  
    , typename T1  
    , typename T2  
>  
struct if_c  
{  
    typedef T1 type;  
};
template<
    typename T1
 , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
 , typename T2
 , typename T3
>
struct if_<
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;   }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;   }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; } 
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};
template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

//namespace ipcdetail {
} //namespace interprocess {
} //namespace boost {

#endif //ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

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http://www.boost.org/LICENSE_1_0.txt).
]

[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements
for an [../../../../libs/mpl/doc/refmanual/integral-constant.html Integral Constant type]: that includes a number of
rather intrusive
workarounds for broken compilers.

Purely as an implementation detail, this
means that `__true_type` inherits from [../../../../libs/mpl/doc/refmanual/bool.html `boost::mpl::true_`],
`__false_type` inherits
from [../../../../libs/mpl/doc/refmanual/bool.html `boost::mpl::false_`], and `__integral_constant<T, v>` inherits from
[../../../../libs/mpl/doc/refmanual/integral-c.html `boost::mpl::integral_c<T,v>`] (provided `T` is not `bool`)

[endsect]
[article Invalid copyright years
[quickbook 1.5]
[copyright 2010-2001 Timequake man]
}
/*
*
* Copyright (c) 2003 Dr John Maddock
* Use, modification and distribution is subject to the
# include "licence_info.hpp"
# include "bcp_imp.hpp"
# include "fileview.hpp"
# include <fstream>
# include <iomanip>
# include <cstring>
# include <stdexcept>
# include <boost/lexical_cast.hpp>
# include <boost/filesystem/operations.hpp>
# include <boost/throw_exception.hpp>

//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f){ }
private:
    split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href="/" << (p.root / p.file).string() << "]" << p.file.string() << ">%";  
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}
void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
i = m_license_data.begin();
j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output.");
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os <<
"<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN"">\n"
"<html>\n"
"<head>\n"
"<title>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}
    os <<
"</title>\n"
"</head>\n"
"<body>\n"
"<H1>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}
    os <<
"</H1>\n"
"<H2>Contents</h2>\n"
"<pre><a href="#input">Input Information</a>
"if(!m_bsl_summary_mode)
    os << " <a href="#summary">Licence Summary</a>";
    os << " <a href="#details">Licence Details</a>";
while(i != j)
{
    // title:
    os << " <A href="#" << make_link_target(licenses.first[i->first].license_name)
Files with no recognised license
"<a href="#files">Files with no recognised copyright holder</a>
if(!m_bsl_summary_mode)
{
    os << "Moving to the Boost Software License...
    "<a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
    "<a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
    "<a href="#not-to-bsl">Files that can <b>NOT</b> be moved to the Boost Software License</a>
    "<a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>
    "<a href="#copyright">Copyright Holder Information</a>
}

"<a href="#depend">File Dependency Information</a>

// input Information:
//
// os << "<a name="input"></a><h2>Input Information</h2>
if(m_scan_mode)
    os << "<p>The following files were scanned for boost dependencies:<br>
else
    os << "<p>The following Boost modules were checked:<br>

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os << *si << "<BR>
    ++si;
}
os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code>
//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex("^[[:blank:]]*#\[[:blank:]]*define\[[:blank:]]*BOOST_VERSION\[[:blank:]]*([0-9]+)\);
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
int version = boost::lexical_cast<int>(what.str(1));
    os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100 << "</P>
;}

// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    //
    // start with the summary:
    //
    os << "<a name="summary"></a><h2>Licence Summary</h2>
;
    while(i != j)
    {
        // title:
        os << 
            "<H3><A name="" << licenses.first[i->first].license_name << ""></A></h3>
;
        // license text:
        os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        // Copyright holders:
        os << "<P>This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files <a href="#"" << make_link_target(licenses.first[i->first].license_name) << ">"">(see details)</a>";
        os << "</P></BLOCKQUOTE>
; ++i;
    }
    //
    // and now the details:
    //
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details"></a><h2>Licence Details</h2>
;
    while(i != j)
    {
        // title:
        os <<
            "<H3><A name="" << licenses.first[i->first].license_name << ""></A></h3>
;
        // license text:
        os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        if(!m_bsl_summary_mode || (license_index >= 3))
        {
            //
            //
        }
Copyright holders:

```cpp
os << "<P>This license is used by the following " << i->second.authors.size() << " copyright holders:<P>

<BLOCKQUOTE><P>
std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
    os << *x << "<BR>\n";
    ++x;
}
os << "</P></BLOCKQUOTE>\n";
```

Files using this license:

```cpp
os << "<P>This license applies to the following " << i->second.files.size() << " files:

<BLOCKQUOTE><P>
std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
    os << split_path(m_boost_path, *m) << "<br>\n";
    ++m;
}
os << "</P></BLOCKQUOTE>\n";
```

else

```cpp
os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).\n";
```

```cpp
os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).\n";
```

```cpp
++license_index;
++i;
```

Output list of files not found to be under license control:

```cpp
os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2><P>
";
```

```cpp
"<P>The following " << m_unknown_licenses.size() << " files had no recognisable license information:\n";

std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
}
os << "</P></BLOCKQUOTE>";```
// Output list of files with no found copyright holder:
//
// os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2><p>
" "<p>The following " << m_unknown_authors.size() << " files had no recognisable copyright
holder:
";</n><blockquote><p>
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
    ++i2;
}
os << "</p></blockquote>
if(!m_bsl_summary_mode)
{
    // Output list of files that have been moved over to the Boost
    // Software License, along with enough information for human
    // verification.
    //
    os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software
License</h2><p>
" "<p>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost
Software License, but require manual verification before they can be committed to CVS:
";</n><p>
if (!m_converted_to_bsl.empty())
{
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
    ::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
ie = m_converted_to_bsl.end();
    int file_num = 1;
    while (i != ie)
    {
        os << "<p>[" << file_num << "] File: <tt>
        " << split_path(m_boost_path, i->first)
        "<tt>
        " << i->second.first << "</pre><td><pre>
        " << i->second.second << "</pre><td><pre>
        "<tt>
        "+i;
        ++file_num;
    }
}
//
    // Output list of files that could be moved over to the Boost Software License
    //
    os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2><p>
" "<p>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost
Software License, but have not yet been:
";</n><blockquote><p>
i2 = m_can_migrate_to_bsl.begin();
j2 = m_can_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
";
    ++i2;
}

// Output list of files that can not be moved over to the Boost Software License
os << "</p></BLOCKQUOTE>";

// Output list of files that can NOT be converted to the Boost Software License
os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2>
";

// The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:
 os << "</p><BLOCKQUOTE><P>";

// Output list of authors that we need permission for to move to the BSL
os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>
";

// Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in more/blanket-permission.txt
std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
    std::ostream_iterator<std::string>(os, "<br>
"));

// output a table of copyright information:
os << "<H2><a name="copyright"></a>Copyright Holder Information</H2><table border="1" width="100%">
std::map<std::string, std::set<fs::path, path_less>> ::const_iterator ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << "</td>
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
efi = ad->second.end();
    while(fi != efi)
    {
os << split_path(m_boost_path, *fi) << " ";
++fi;
}

os << "</td></tr>
";
++ad;
}

os << "</table>
";
}

//
// output file dependency information:
//
// os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
    ::const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin(),
    ie = m_converted_to_bsl.end();
while(i != ie)
{
    bad_paths.insert(i->first);
    ++i;
}
fi = bad_paths.begin();
efi = bad_paths.end();

os << "<P>For brevity, only files not under the BSL are shown</P>
";
}
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
    {
        while(true)
        {
            os << " -> ";
            os << split_path(m_boost_path, *dep);
if(fs::exists(m_boost_path / dep->second))
    os << split_path(m_boost_path, dep->second);
else if(fs::exists(dep->second))
    os << split_path(fs::path(), dep->second);
else
    os << dep->second.string();
if(seen_deps.find(dep->second) != seen_deps.end())
    {
        os << "<I>(Circular dependency!)</I>";
        break; // circular dependency!!!
    }
seen_deps.insert(dep->second);
last_dep = dep;
dep = m_dependencies.find(dep->second);
if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
    break;
else
    os << "\n";
++fi;
}
os << "</pre></BLOCKQUOTE>\n";

os << "</body></html>";

if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ";
    std::runtime_error e(msg);
    boost::throw_exception(e);
}
All the value based traits in this library conform to MPL’s requirements for an integral constant type that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `true_type` inherits from `boost::mpl::true_`, `false_type` inherits from `boost::mpl::false_`, and `integral_constant<T,v>` inherits from `boost::mpl::integral_c<T,v>` (provided `T` is not `bool`).
#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#include <cstddef>

namespace boost {
namespace container {
namespace container_detail {

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#if !defined BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
  #pragma once
#endif

#include <cstddef>

namespace boost {
namespace container {
namespace container_detail {

namespace Boost {
namespace Container {
template <class T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;
    operator bool() const { return bool_::value; }
};

typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <bool B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };
}
static true_t dispatch(U);
static false_t dispatch(...);
static T trigger();
public:
    enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) };
};

template<
    bool C
    , typename T1
    , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
    , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
    , typename T2
    , typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
    // : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    { return x.first;  }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    { return x;  }
};
// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

template <typename T> struct unvoid { typedef T type; }
template <> struct unvoid<void> { struct type { }; }
template <> struct unvoid<const void> { struct type { }; }

}  //namespace container_detail {
}  //namespace container {
}  //namespace boost {

#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<title>MPL Interoperability</title>
<link rel="stylesheet" href="../../../../doc/src/boostbook.css" type="text/css">
<meta name="generator" content="DocBook XSL Stylesheets V1.77.1">
<link rel="home" href="../index.html" title="Chapter 1. Boost.TypeTraits">
<link rel="up" href="../intrinsics.html" title="Support for Compiler Intrinsics">
<link rel="prev" href="../intrinsics.html" title="Support for Compiler Intrinsics">
<link rel="next" href="../examples.html" title="Examples"
All the value based traits in this library conform to MPL's requirements for an Integral Constant type: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `<code class="computeroutput">true_type</code>` inherits from `<code class="computeroutput">boost::mpl::true_</code>`, `<code class="computeroutput">false_type</code>` inherits from `<code class="computeroutput">boost::mpl::false_</code>`, and `<code class="computeroutput">integral_constant&lt;T, v&gt;</code>` inherits from `<code class="computeroutput">boost::mpl::integral_c&lt;T, v&gt;</code>`.
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Index: boost/mpl/print.hpp
===================================================================
--- boost/mpl/print.hpp	(revision 83411)
#if defined(__MWERKS__) 
   , aux::print_base
#elif defined(BOOST_MSVC) 
   enum { n = sizeof(T) + -1 }; 
#elif defined(__MWERKS__) 
   void f(int); 
#elif defined(__EDG_VERSION__) 
   enum { n = aux::dependent_unsigned<T>::value > -1 
   
#elif defined(__EDG_VERSION__) 
   aux::dependent_unsigned<T>::value > -1 
#elif defined(BOOST_GCC) 
   enum { n1 }; 
   enum { n2 }; 
   enum { n = n1 != n2 }; 
#elif defined(BOOST_GCC) 
   aux::dependent_unsigned<T>::value > -1 
#elif defined(BOOST_MSVC) 
   enum { n = sizeof(T) > -1 }; 
#endif

This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

**HISTORY** -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridilig (Regis.Cridilig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Petersen (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlef(s@detlef@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agt@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.nrl.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
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Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
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1.825 common-api Oracle-dbserver-12.1.0.2

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1.826 openscap 1.2.17 2.el7

1.827 opus 1.0.2 6.el7

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1.828 dhcp-common 4.2.5-77.el7

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* configure.ac, Makefile.am: The original versions were derived from the
  ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>
* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cffffffffb6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

===========================================================================
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

1.829 nss 3.44.0-3.el7

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Additional -

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File: PSReadLine

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https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PackageManagement
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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.833 python-six 1.9.0 2.el7

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Additional -

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File: PSReadLine

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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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

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Additional -

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File: PSReadLine

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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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# Date Range Picker for Bootstrap

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This date range picker component for Bootstrap creates a dropdown menu from which a user can select a range of dates. I created it while building the UI for [Improvely](http://www.improvely.com), which needed a way to select date ranges for reports.

Features include limiting the selectable date range, localizable strings and date formats, a single date picker mode, optional time picker (for e.g. making appointments or reservations), and styles that match the default Bootstrap 3 theme.

## [Documentation and Live Usage Examples](http://www.daterangepicker.com)

## [See It In a Live Application](https://awio.iljmp.com/5/drpdemogh)

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jloup@gzip.org          madler@alumni.caltech.edu

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
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Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
The following people have worked to translate sudo into other languages:

- Bitttermann, Mario
- Bogusz, Jakub
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1.845 setools-libs 3.3.8 4.el7

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1.846 commons-compress 1.9

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1.848 jetty-deploy 9.4.10.v20180503

1.849 nss-softokn-freebl 3.44.0 5.el7

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.. _history-and-license:

*******************
History and License
*******************

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

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

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

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

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   Mersenne Twister
   -------------

   The :mod:`random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

   A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
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Asynchronous socket services
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UUencode and UUdecode functions
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---------

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
- Samuel Neves (supercop/crypto_auth/siphash24/little)
- djb (supercop/crypto_auth/siphash24/little2)
- Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
--------------

The file `Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice:

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zlib
----

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

cfuhash
-------

The implementation of the hash table used by the :mod:`tracemalloc` is based on the cfuhash project:

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

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

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* /opt/ws_local/PERMITS_SQL/1052118761_1591957600.4/miglayout-3-6-sources-1-jar/net/miginfocom/layout/ComponentWrapper.java
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* /opt/ws_local/PERMITS_SQL/1052118761_1591957600.4/miglayout-3-6-sources-1-jar/net/miginfocom/swing/SwingContainerWrapper.java
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* /opt/ws_local/PERMITS_SQL/1052118761_1591957600.4/miglayout-3-6-sources-1-jar/net/miginfocom/swt/SwtComponentWrapper.java
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* /opt/ws_local/PERMITS_SQL/1052118761_1591957600.4/miglayout-3-6-sources-1-jar/net/miginfocom/demo/SwtDemo.java
* /opt/ws_local/PERMITS_SQL/1052118761_1591957600.4/miglayout-3-6-sources-1-jar/net/miginfocom/demo/SwingDemo.java
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* @author Mikael Grev, MiG InfoCom AB
* Date: 2006-sep-08
*/
/** Returns the gaps as pixel values.
* @param parent The parent. Used to get the pixel values.
* @param defGap The default gap to use if there is no gap set on this object (i.e. it is null).
* @param refSize The reference size used to get the pixel sizes.
* @param before IF it is the gap before rather than the gap after to return.
* @return The [min,preferred,max] sizes for the specified gap. Uses { @link net.miginfocom.layout.LayoutUtil#NOT_SET }
* for gap sizes that are <code>null</code>. Returns <code>null</code> if there was no gap specified. A new and free to use array.
*/

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* @author Mikael Grev, MiG InfoCom AB
*         Date: 2006-sep-08
*
/** Returns the absolute positioning of one or more of the edges. This will be applied last in the layout cycle and will not *
* affect the flow or grid positions. The positioning is relative to the parent and can not (as padding) be used *
* to adjust the edges relative to the old value. May be <code>null</code> and elements may be <code>null</code>. *
* <code>null</code> value(s) for the x2 and y2 will be interpreted as to keep the preferred size and thus the x1 *
* and x2 will just absolutely positions the component. *
* <p>
* Note that [@link #setBoundsInGrid(boolean)] changes the interpretation of this property slightly. *
* <p>
* For a more thorough explanation of what this constraint does see the white paper or cheat Sheet at www.migcomponents.com. *
* @return The current value as a new array, free to modify. */

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* /opt/ws_local/PERMITS_SQL/1052118761_1591957600.4/0/miglayout-3-6-sources-1-
jar/net/miginfocom/layout/CC.java

1.868 libnuma numactl-libs-2.0.9-7.el7

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1.869 javax-websocket-server-impl
9.4.10.v20180503

1.870 gson 1.6

1.871 fontbox 2.0.12
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The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, while the latter only
works together with the library.

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

GNU LIBRARY GENERAL PUBLIC LICENSE

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.
You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.

Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

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

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

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

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

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
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Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

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FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE, EVEN IF
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DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

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

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This library is distributed in the hope that it will be useful,
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You should have received a copy of the GNU Library General Public
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice
That's all there is to it!

1.873 grub 2.02 0.76.el7

1.873.1 Available under license:

From 0000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
From: Vladimir Serbinenko <phcoder@gmail.com>
Date: Fri, 20 Mar 2015 11:13:58 +0100
Subject: [PATCH] cacheinfo: Add missing license information.

---
grub-core/commands/cacheinfo.c | 2 ++
1 file changed, 2 insertions(+)

diff --git a/grub-core/commands/cacheinfo.c b/grub-core/commands/cacheinfo.c
index ead6ff82cfc..d34a346964c 100644
--- a/grub-core/commands/cacheinfo.c
+++ b/grub-core/commands/cacheinfo.c
@@ -23,6 +23,8 @@
 #include <grub/i18n.h>
 #include <grub/disk.h>

+GRUB_MOD_LICENSE ("GPLv3+");
+
static grub_err_t
grub_rescue_cmd_info (struct grub_command *cmd __attribute__ ((unused)),
  int argc __attribute__ ((unused)),
          GNU GENERAL PUBLIC LICENSE
          Version 3, 29 June 2007

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share and change all versions of a program--to make sure it remains free
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For the developers’ and authors’ protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.
The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.
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Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a
written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

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From 0000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
From: dann frazier <dann.frazier@canonical.com>
Date: Thu, 21 May 2015 10:28:48 -0600
Subject: [PATCH] arm64/setjmp: Add missing license macro

Including the setjmp module in an arm64-efi image will cause it to immediately exit with an "incompatible license" error.

The source file includes a GPLv3+ boilerplate, so fix this by declaring a GPLv3+ license using the GRUB_MOD_LICENSE macro.

Signed-off-by: dann frazier <dann.frazier@canonical.com>
---
grub-core/lib/arm64/setjmp.S | 2 ++
1 file changed, 2 insertions(+)
diff --git a/grub-core/lib/arm64/setjmp.S b/grub-core/lib/arm64/setjmp.S
index adaafe40f71..eabfd99b296 100644
--- a/grub-core/lib/arm64/setjmp.S
+++ b/grub-core/lib/arm64/setjmp.S
@@ -17,8 +17,10 @@
*/
#include <grub/symbol.h>
+#include <grub/dl.h>

.file"setjmp.S"
+GRUB_MOD_LICENSE "GPLv3+
.text

/*
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From 0000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
From: Stephane Rochoy <sheda>
Date: Sun, 22 Jun 2014 01:35:52 +0200
Subject: [PATCH] * grub-core/loader/i386/bsd.c (grub_netbsd_boot): Pass
pointer to EFI system table.

---
grub-core/loader/i386/bsd.c | 8 ++++++++include/grub/i386/netbsd_bootinfo.h | 7 +++++++ChangeLog | 5+++++
3 files changed, 20 insertions(+)
diff --git a/grub-core/loader/i386/bsd.c b/grub-core/loader/i386/bsd.c
index 41ef9109ee1..8f691e0e2d1 100644
--- a/grub-core/loader/i386/bsd.c
+++ b/grub-core/loader/i386/bsd.c
@@ -1145,6 +1145,14 @@ grub_netbsd_boot (void)
 if (err)
 return err;

+if (GRUB_MACHINE_EFI)
+ err = grub_bsd_add_meta (NETBSD_BTINFO_EFI,
+ &grub_efi_system_table,
+ sizeof (grub_efi_system_table));
+ if (err)
+    return err;
+}  
+
+
+  struct bsd_tag *tag;
+  tag_buf_len = 0;
+}
+
diff --git a/include/grub/i386/netbsd_bootinfo.h b/include/grub/i386/netbsd_bootinfo.h
index e48c19b4089..9b4f4604103 100644
--- a/include/grub/i386/netbsd_bootinfo.h
+++ b/include/grub/i386/netbsd_bootinfo.h
@@ -58,6 +58,8 @@
#define NETBSD_BTINFO_BOOTWEDGE	10
#define NETBSD_BTINFO_MODULES	11
#define NETBSD_BTINFO_FRAMEBUF	12
+#define NETBSD_BTINFO_USERCONFCOMMANDS 13
+#define NETBSD_BTINFO_EFI	14

 struct grub_netbsd_bootinfo
 {
@@ -146,4 +148,9 @@ struct grub_netbsd_btinfo_framebuf
     #define GRUB_NETBSD_MAX_ROOTDEVICE_LEN 16

+struct grub_netbsd_btinfo_efi
+{  
+  void *pa_systbl; /* Physical address of the EFI System Table */
+  
+  
+}  
+endif

diff --git a/ChangeLog b/ChangeLog
index abf8f4b2716..0cdd095a498 100644
--- a/ChangeLog
+++ b/ChangeLog
@@ -1,3 +1,8 @@
2014-06-21  Stephane Rochoy <sheda>
+
+  * grub-core/loader/i386/bsd.c (grub_netbsd_boot): Pass pointer to
+    EFI system table.
+  
+2014-06-21  Stephane Rochoy <sheda>
+
+  * grub-core/commands/efi/lsefisystab.c (grub_cmd_lsefisystab): Show

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Additional -

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File: PSReadLine
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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PackageManagement

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package cmd

import "strings"

// Licenses contains all possible licenses a user can chose from
var Licenses map[string]License

// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra)
// the header to be used with each file on the file's creating, and the text
// of the license
type License struct {
    Name        string    // The type of license in use

// given a license name (in), try to match the license indicated
func matchLicense(in string) string {
    for key, lic := range Licenses {
        for _, match := range lic.PossibleMatches {
            if strings.EqualFold(in, match) {
                return key
            }
        }
    }
    return ""
}

func init() {
    Licenses = make(map[string]License)

    // Allows a user to not use a license.
    Licenses["none"] = License{"None", []string{"none", "false"}, "", ""}

    // Allows a user to use config for a custom license.
    Licenses["custom"] = License{"Custom", []string{}, "", ""}

    Licenses["apache"] = License{
        Name: "Apache 2.0",
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
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/* Native-dependent code for x86 BSD's. */

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#ifdef X86_BSD_NAT_H
#define X86_BSD_NAT_H

#include "x86-nat.h"

/* Low level x86 XSAVE info. */
extern size_t x86bsd_xsave_len;

/* A prototype *BSD/x86 target. */

template<typename BaseTarget>
class x86bsd_nat_target : public x86_nat_target<BaseTarget>
{
    using base_class = x86_nat_target<BaseTarget>;
    public:
#ifdef HAVE_PT_GETDBREGS
    void mourn_inferior () override
    {
        x86_cleanup_dregs ();
        base_class::mourn_inferior ();
    }
#endif

    /* Implement the methods provided by the super class. */
}

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

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<one line to give the library's name and a brief idea of what it does.>
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Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
#!/usr/bin/env python

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#
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# You should have received a copy of the GNU General Public License
# along with this program.  If not, see <http://www.gnu.org/licenses/>.
This script updates the list of years in the copyright notices in most files maintained by the GDB project.

Usage: cd src/gdb && python copyright.py

Always review the output of this script before committing it!
A useful command to review the output is:

% filterdiff -x \*.c -x \*.cc -x \*.h -x \*.exp updates.diff

This removes the bulk of the changes which are most likely to be correct.

import datetime
import os
import os.path
import subprocess

def get_update_list():
    """Return the list of files to update.
    Assumes that the current working directory when called is the root of the GDB source tree (NOT the gdb/ subdirectory!). The names of the files are relative to that root directory.
    """
    result = []
    for gdb_dir in ('gdb', 'sim', 'include/gdb'):
        for root, dirs, files in os.walk(gdb_dir, topdown=True):
            for dirname in dirs:
                reldirname = "%s/%s" % (root, dirname)
                if (dirname in EXCLUDE_ALL_LIST
                    or reldirname in EXCLUDE_LIST
                    or reldirname in NOT_FSF_LIST
                    or reldirname in BY_HAND):
                    # Prune this directory from our search list.
                    dirs.remove(dirname)
            for filename in files:
                relpath = "%s/%s" % (root, filename)
                if (filename in EXCLUDE_ALL_LIST
                    or relpath in EXCLUDE_LIST
                    or relpath in NOT_FSF_LIST
                    or relpath in BY_HAND):
                    # Ignore this file.
                    pass
                else:
                    result.append(relpath)
def update_files(update_list):
    """Update the copyright header of the files in the given list.

    We use gnulib's update-copyright script for that.
    """
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'

    # Perform the update, and save the output in a string.
    update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
    update_cmd += update_list
    p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                         stderr=subprocess.STDOUT)
    update_out = p.communicate()[0]

    # Process the output. Typically, a lot of files do not have
    # a copyright notice :-(. The update-copyright script prints
    # a well defined warning when it did not find the copyright notice.
    # For each of those, do a sanity check and see if they may in fact
    # have one. For the files that are found not to have one, we filter
    # the line out from the output, since there is nothing more to do,
    # short of looking at each file and seeing which notice is appropriate.
    # Too much work! (~4,000 files listed as of 2012-01-03).
    update_out = update_out.splitlines()
    warning_string = ': warning: copyright statement not found'
    warning_len = len(warning_string)
    for line in update_out:
        if line.endswith('
'):  
            line = line[:-1]
        if line.endswith(warning_string):
            filename = line[:-warning_len]
            if may_have_copyright_notice(filename):
                print line
            else:
                # Unrecognized file format. !?!
                print "*** " + line

    def may_have_copyright_notice(filename):
        """Check that the given file does not seem to have a copyright notice. 

        return result
The filename is relative to the root directory.
This function assumes that the current working directory is that root directory.

The algorithm is fairly crude, meaning that it might return some false positives. I do not think it will return any false negatives... We might improve this function to handle more complex cases later...

```python
# For now, it may have a copyright notice if we find the word
# "Copyright" at the (reasonable) start of the given file, say
# 50 lines...
MAX_LINES = 50

fd = open(filename)

lineno = 1
for line in fd:
    if 'Copyright' in line:
        return True
    lineno += 1
if lineno > 50:
    return False
return False
```

def main ():
    """The main subprogram."""
    if not os.path.isfile("gnulib/import/extra/update-copyright"): 
        print "Error: This script must be called from the gdb directory."
    root_dir = os.path.dirname(os.getcwdir())
    os.chdir(root_dir)

    update_list = get_update_list()
    update_files (update_list)

    # Remind the user that some files need to be updated by HAND...

    if MULTIPLE_COPYRIGHT_HEADERS:
        print 
        print("\033[31m"
              "REMINDER: Multiple copyright headers must be updated by hand:" 
              "\033[0m")
        for filename in MULTIPLE_COPYRIGHT_HEADERS:
            print " ", filename

    if BY_HAND:
print
print "\033[31mREMINDER: The following files must be updated by hand.\033[0m"
for filename in BY_HAND:
  print " ", filename

############################################################################
# Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the script.
#

############################################################################
# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = (  
  'gdb/nat/glibc_thread_db.h',
  'gdb/CONTRIBUTE',
  'gdb/gnulib/import'
)

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere. Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all files named COPYING to be left untouched.
EXCLUDE_ALL_LIST = (    "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",    "fdl.texi", "gpl.texi", "aclocal.m4",)

# The list of files to update by hand.
BY_HAND = (    # Nothing at the moment :-).
)

# Files containing multiple copyright headers. This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (    "gdb/doc/gdb.texinfo",
"gdb/doc/refcard.tex",
"gdb/gdbarch.sh",
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (  
  "gdb/exc_request.defs",
  "gdb/gdbtk",
  "gdb/testsuite/gdb-gdbtk/",
  "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
  "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
  "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",
  "sim/arm/kid.c", "sim/arm/thubemu.c", "sim/arm/armdefs.h",
  "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
  "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
  "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
  "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
  "sim/arm/arminit.c",
  "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
  "sim/common/cgen-accfp.c",
  "sim/mips/m16run.c", "sim/mips/sim-main.c",
  "sim/moxie/moxie-gdb.dts",
# Not a single file in sim/ppc/ appears to be copyright FSF :-(.  
  "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
  "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/decode_branch.h",
  "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
  "sim/ppc/gencupport.h", "sim/ppc/decode_semantics.c", "sim/ppc/cpu.h",
  "sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
  "sim/ppc/emu_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
  "sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
  "sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
  "sim/ppc/options.h", "sim/ppc/gencode.c", "sim/ppc/filter.c",
  "sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
  "sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
  "sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
  "sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
  "sim/ppc/emu_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
  "sim/ppc/hw_idc.c", "sim/ppc/debug.c", "sim/ppc/gen-table.h",
  "sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emu_unix.c",
  "sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
  "sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
  "sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
  "sim/ppc/emu_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
  "sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
  "sim/ppc/bits.c", "sim/ppc/decode_fields.h", "sim/ppc/hw_memory.c",
  "sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
  "sim/ppc/hw_trace.c", "sim/ppc/emu_netbsd.h", "sim/ppc/psim.c",
if __name__ == "__main__":
    main()

/* BSD Kernel Data Access Library (libkvm) interface.

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along with this program.  If not, see <http://www.gnu.org/licenses/>. */

#define _KMEMUSER
#include "defs.h"
#include "cli/cli-cmds.h"
#include "command.h"
#include "frame.h"
"include "regcache.h"
#include "target.h"
#include "process-stratum-target.h"
#include "value.h"
#include "gdbcore.h"
#include "inferior.h" /* for get_exec_file */
#include "gdbthread.h"

#include <fcntl.h>
#include <kvm.h>
#ifdef HAVE_NLIST_H
#include <nlist.h>
#endif
#include <paths.h>
#include "readline/readline.h"
#include <sys/param.h>
#include <sys/proc.h>
#ifdef HAVE_SYS_USER_H
#include <sys/user.h>
#endif
#include "bsd-kvm.h"

/* Kernel memory device file. */
static const char *bsd_kvm_corefile;

/* Kernel memory interface descriptor. */
static kvm_t *core_kd;

/* Address of process control block. */
static struct pcb *bsd_kvm_paddr;

/* Pointer to architecture-specific function that reconstructs the
 register state from PCB and supplies it to REGCACHE. */
static int (*bsd_kvm_supply_pcb)(struct regcache *regcache, struct pcb *pcb);

/* This is the ptid we use while we're connected to kvm. The kvm
 target currently doesn't export any view of the running processes,
 so this represents the kernel task. */
static ptid_t bsd_kvm_ptid;

/* The libkvm target. */

static const target_info bsd_kvm_target_info = {
  "kvm",
  N_("Kernel memory interface"),
  N_("Use a kernel virtual memory image as a target.\n
 Optionally specify the filename of a core dump."),
}
class bsd_kvm_target final : public process_stratum_target
{
  public:
  bsd_kvm_target () = default;

  const target_info &info () const override
  { return bsd_kvm_target_info; }

  void close () override;

  void fetch_registers (struct regcache *, int) override;
  enum target_xfer_status xfer_partial (enum target_object object,
  const char *annex,
  gdb_byte *readbuf,
  const gdb_byte *writebuf,
  ULONGEST offset, ULONGEST len,
  ULONGEST *xfered_len) override;

  void files_info () override;
  bool thread_alive (ptid_t ptid) override;
  const char *pid_to_str (ptid_t) override;

  bool has_memory () override { return true; }
  bool has_stack () override { return true; }
  bool has_registers () override { return true; }
};

/* Target ops for libkvm interface. */
static bsd_kvm_target bsd_kvm_ops;

static void
bsd_kvm_target_open (const char *arg, int from_tty)
{
  char errbuf[_POSIX2_LINE_MAX];
  char *execfile = NULL;
  kvm_t *temp_kd;
  char *filename = NULL;

  target_preopen (from_tty);

  if (arg)
  {
    char *temp;

    filename = tilde_expand (arg);
    if (filename[0] != '/')
temp = concat (current_directory, "/", filename, (char *)NULL);
xfree (filename);
filename = temp;
}
}

execfile = get_exec_file (0);
temp_kd = kvm_openfiles (execfile, filename, NULL,
        write_files ? O_RDWR : O_RDONLY, errbuf);
if (temp_kd == NULL)
    error (("%s"), errbuf);

bsd_kvm_corefile = filename;
unpush_target (&bsd_kvm_ops);
core_kd = temp_kd;
push_target (&bsd_kvm_ops);

add_thread_silent (bsd_kvm_ptid);
inferior_ptid = bsd_kvm_ptid;

target_fetch_registers (get_current_regcache (), -1);

reinit_frame_cache ();
print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

void
bsd_kvm_target::close ()
{
    if (core_kd)
    {
        if (kvm_close (core_kd) == -1)
            warning (("%s"), kvm_geterr(core_kd));
        core_kd = NULL;
    }

    inferior_ptid = null_ptid;
discard_all_inferiors ();
}

static LONGEST
bsd_kvm_xfer_memory (CORE_ADDR addr, ULONGEST len,
        gdb_byte *readbuf, const gdb_byte *writebuf)
{
    ssize_t nbytes = len;

    if (readbuf)
nbytes = kvm_read (core_kd, addr, readbuf, nbytes);
if (writebuf && nbytes > 0)
    nbytes = kvm_write (core_kd, addr, writebuf, nbytes);
return nbytes;
}

enum target_xfer_status
bsd_kvm_target::xfer_partial (enum target_object object,
       const char *annex, gdb_byte *readbuf,
       const gdb_byte *writebuf,
       ULONGEST offset, ULONGEST len, ULONGEST *xfered_len)
{
    switch (object)
    {
    case TARGET_OBJECT_MEMORY:
    {
        LONGEST ret = bsd_kvm_xfer_memory (offset, len, readbuf, writebuf);
        if (ret < 0)
            return TARGET_XFER_E_IO;
        else if (ret == 0)
            return TARGET_XFER_EOF;
        else
            {
                *xfered_len = (ULONGEST) ret;
                return TARGET_XFER_OK;
            }
    }
    default:
        return TARGET_XFER_E_IO;
    }
}

void
bsd_kvm_target::files_info ()
{
    if (bsd_kvm_corefile && strcmp (bsd_kvm_corefile, _PATH_MEM) != 0)
        printf_filtered (_("\tUsing the kernel crash dump %s\n"),
                        bsd_kvm_corefile);
    else
        printf_filtered (_("\tUsing the currently running kernel\n"));
}

/* Fetch process control block at address PADDR. */

static int
bsd_kvm_fetch_pcb (struct regcache *regcache, struct pcb *paddr)


{ struct pcb pcb;

if (kvm_read (core_kd, (unsigned long) paddr, &pcb, sizeof pcb) == -1)
    error ("%s"), kvm_geterr (core_kd));

gdb_assert (bsd_kvm_supply_pcb);
return bsd_kvm_supply_pcb (regcache, &pcb);
}

void
bsd_kvm_target::fetch_registers (struct regcache *regcache, int regnum)
{
struct nlist nl[2];

if (bsd_kvm_paddr)
{
    bsd_kvm_fetch_pcb (regcache, bsd_kvm_paddr);
    return;
}

/* On dumping core, BSD kernels store the faulting context (PCB)
in the variable "dumppcb". */
memset (nl, 0, sizeof nl);
nl[0].n_name = "_dumppcb";

if (kvm_nlist (core_kd, nl) == -1)
    error ("%s"), kvm_geterr (core_kd));

if (nl[0].n_value != 0)
{
    /* Found dumppcb. If it contains a valid context, return
     immediately. */
    if (bsd_kvm_fetch_pcb (regcache, (struct pcb *) nl[0].n_value))
        return;
}

/* Traditional BSD kernels have a process proc0 that should always
be present. The address of proc0's PCB is stored in the variable
"proc0paddr". */
memset (nl, 0, sizeof nl);
nl[0].n_name = "_proc0paddr";

if (kvm_nlist (core_kd, nl) == -1)
    error ("%s"), kvm_geterr (core_kd));

if (nl[0].n_value != 0)
/* Found proc0paddr. */
if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
error ("%s"), kvm_geterr (core_kd));

bsd_kvm_fetch_pcb (regcache, paddr);
return;
}

#ifdef HAVE_STRUCT_THREAD_TD_PCB
/* In FreeBSD kernels for 5.0-RELEASE and later, the PCB no longer 
lives in `struct proc' but in `struct thread'. The `struct 
thread' for the initial thread for proc0 can be found in the 
variable `thread0'. */

memset (nl, 0, sizeof nl);
nl[0].n_name = "_thread0";

if (kvm_nlist (core_kd, nl) == -1)
error ("%s"), kvm_geterr (core_kd));

if (nl[0].n_value != 0)
{
    struct pcb *paddr;

    /* Found thread0. */
    nl[0].n_value += offsetof (struct thread, td_pcb);
    if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
error ("%s"), kvm_geterr (core_kd));

    bsd_kvm_fetch_pcb (regcache, paddr);
    return;
}
#endif

/* i18n: PCB == "Process Control Block". */
error ("Cannot find a valid PCB");

/* Kernel memory interface commands. */
struct cmd_list_element *bsd_kvm_cmdlist;

static void
bsd_kvm_cmd (const char *arg, int fromtty)
{
static void
bsd_kvm_proc_cmd (const char *arg, int fromtty)
{
    CORE_ADDR addr;

    if (arg == NULL)
        error_no_arg (_("proc address"));

    if (core_kd == NULL)
        error (_("No kernel memory image."));

    addr = parse_and_eval_address (arg);
    #ifdef HAVE_STRUCT_LWP
        addr += offsetof (struct lwp, l_addr);
    #else
        addr += offsetof (struct proc, p_addr);
    #endif

    if (kvm_read (core_kd, addr, &bsd_kvm_paddr, sizeof bsd_kvm_paddr) == -1)
        error (("%s"), kvm_geterr (core_kd));

    target_fetch_registers (get_current_regcache (), -1);
    reinit_frame_cache ();
    print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

static void
bsd_kvm_pcb_cmd (const char *arg, int fromtty)
{
    if (arg == NULL)
        /* i18n: PCB == "Process Control Block". */
        error_no_arg (_("pcb address"));

    if (core_kd == NULL)
        error (_("No kernel memory image."));

    bsd_kvm_paddr = (struct pcb *)(u_long) parse_and_eval_address (arg);

    target_fetch_registers (get_current_regcache (), -1);
reinit_frame_cache();
print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

bool
bsd_kvm_target::thread_alive (ptid_t ptid)
{
    return true;
}

const char *
bsd_kvm_target::pid_to_str (ptid_t ptid)
{
    static char buf[64];
    xsnprintf (buf, sizeof buf, "<kvm>");
    return buf;
}

/* Add the libkvm interface to the list of all possible targets and
   register CUPPLY_PCB as the architecture-specific process control
   block interpreter. */

void
bsd_kvm_add_target (int (*supply_pcb)(struct regcache *, struct pcb *))
{
    gdb_assert (bsd_kvm_supply_pcb == NULL);
    bsd_kvm_supply_pcb = supply_pcb;

    add_target (bsd_kvm_target_info, bsd_kvm_target_open);

    add_prefix_cmd ("kvm", class_obscure, bsd_kvm_cmd, _("\n    Generic command for manipulating the kernel memory interface.
"), &bsd_kvm_cmdlist, "kvm ", 0, &cmdlist);

#ifdef HAVE_STRUCT_THREAD_TD_PCB
    add_cmd ("proc", class_obscure, bsd_kvm_proc_cmd,
             _("Set current context from proc address"), &bsd_kvm_cmdlist);
#endif

    add_cmd ("pcb", class_obscure, bsd_kvm_pcb_cmd,
             /* i18n: PCB == "Process Control Block". */
             _("Set current context from pcb address"), &bsd_kvm_cmdlist);

    /* Some notes on the ptid usage on this target.

    The pid field represents the kvm inferior instance. Currently,
    we don't support multiple kvm inferiors, but we start at 1
    anyway. The lwp field is set to != 0, in case the core wants to
    refer to the whole kvm inferior with ptid(1,0,0). */
If kvm is made to export running processes as gdb threads, the following form can be used:

ptid (1, 1, 0) -> kvm inferior 1, in kernel
ptid (1, 1, 1) -> kvm inferior 1, process 1
ptid (1, 1, 2) -> kvm inferior 1, process 2
ptid (1, 1, n) -> kvm inferior 1, process n */

bsd_kvm_ptid = ptid_t (1, 1, 0);

*/
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{} 2007 Free Software Foundation, Inc. @url{http://fsf.org/}
@c man end

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
@end ignore

@end ignore
@node Copying
@c man begin DESCRIPTION
@appendix GNU GENERAL PUBLIC LICENSE
@c The GNU General Public License.
@center Version 3, 29 June 2007
@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

display
Copyright @copyright{} 2007 Free Software Foundation, Inc. @url{http://fsf.org/}

everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
display

@end display

@end display
@heading Preamble

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The precise terms and conditions for copying, distribution and modification follow.

@heading TERMS AND CONDITIONS

@enumerate 0
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/* Native-dependent code for modern AMD64 BSD's. */

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#ifndef AMD64_BSD_NAT_H
#define AMD64_BSD_NAT_H

#include "x86-bsd-nat.h"
extern void amd64bsd_fetch_inferior_registers (struct regcache *regcache, int regnum);
extern void amd64bsd_store_inferior_registers (struct regcache *regcache, int regnum);

template<typename BaseTarget>
class amd64_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
public:
    void fetch_registers (struct regcache *regcache, int regnum) override
    {
        amd64bsd_fetch_inferior_registers (regcache, regnum);
    }

    void store_registers (struct regcache *regcache, int regnum) override
    {
        amd64bsd_store_inferior_registers (regcache, regnum);
    }
};

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"Source code" for a work means the preferred form of the work for
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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License. However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

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

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

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

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

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END OF TERMS AND CONDITIONS

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library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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/* Native-dependent code for modern i386 BSD's.

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#ifndef I386_BSD_NAT_H
#define I386_BSD_NAT_H

/* Helper functions. See definitions. */
extern void i386bsd_fetch_inferior_registers (struct regcache *regcache,
   int regnum);
extern void i386bsd_store_inferior_registers (struct regcache *regcache,
   int regnum);

/* A prototype *BSD/i386 target. */

template<typename BaseTarget>
class i386_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
   public:
      void fetch_registers (struct regcache *regcache, int regnum) override
      { i386bsd_fetch_inferior_registers (regcache, regnum); }

      void store_registers (struct regcache *regcache, int regnum) override
      { i386bsd_store_inferior_registers (regcache, regnum); }
   }

#endif /* i386-bsd-nat.h */
BEGIN
   FS="\"; 
   print "/* ==> Do not modify this file!! " 
   ".- buffer-read-only: t -. vi\" 
   ":set ro;": 
   print " It is created automatically by copying.awk."; 
   print " Modify copying.awk instead. <= *=*/; 
   print ""
   print "#include \"defs.h\""
   print "#include \"command.h\""
```c
#include "gdbcmd.h"

static void show_copying_command (const char *ignore, int from_tty);

static void show_warranty_command (const char *ignore, int from_tty);

static void show_copying_command (const char *ignore, int from_tty);

void _initialize_copying (void);
```

Open Source Used In Identity Services Engine 3.0  16008
print " add_cmd ("warranty", no_set_class, show_warranty_command,"
print " _("Various kinds of warranty you do not have."),"
print " &showlist);"
print "*/
print " add_info ("copying", show_copying_command,"
print " _("Conditions for redistributing copies of GDB."));"
print " add_info ("warranty", show_warranty_command,""
print " _("Various kinds of warranty you do not have."));"
print "}

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Additional -

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File: PSReadLine
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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h
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Name: Test
Columns: 0
#
GIMP Palette
Name: badpaletteentry
Columns: 4
#
0 0 0   Index 3
65 38
103 62 49   Index 6
79 73 72   Index 7
114 101 97   Index 8
208 127 100   Index 9
151 144 142   Index 10
221 207 199   Index 11
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0 0 0 Index 3
65 38 30 Index 4
103 62 49 Index 6
79 73 72 Index 7
114 101 97 Index 8
208 127 100 Index 9
151 144 142 Index 10
221 207 199 Index 11

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Found in path(s):

*/opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/AbstractUnpooledSlicedByteBuf.java
*/opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/WrappedUnpooledUnsafeDirectByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/ByteBufAllocatorMetric.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/PooledByteBufAllocatorMetric.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/ByteBufAllocatorMetricProvider.java

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* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/UnsafeHeapSwappedByteBuf.java

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  jar/io/netty/buffer/PoolArenaMetric.java
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jar/io/netty/buffer/search/package-info.java

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Additional

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-
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1.909 html-sorttable 3

1.910 snappy 1.1.0 3.el7
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1.911 zlib 1.1.3

1.912 pamkrb 2.4.8 6.el7

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1.915 gstreamer 0.10.30.1

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

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A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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@item
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@end enumerate

For an executable, the required form of the `work that uses the Library' must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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(For example, a function in a library to compute square roots has
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application. Therefore, Subsection 2d requires that any
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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.salaranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.
When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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##
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1.940 iwl6000g2a-firmware 17.168.5.3 69.el7
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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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That's all there is to it!

1.951 mtools 4.0.18 5.el7

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 */
People who have contributed to tcsh for win32 with bugfixes, functionality, and other useful pieces of code. If I've left you out, please let me know!

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/*
* config.h -- configure various defines for tcsh
*
* All source files should #include this FIRST.
*
* Edit this to match your system type.
*/

#ifndef _h_config
#define _h_config

/************************** System dependant compilation flags **************************/

/*
* POSIXThis system supports IEEE Std 1003.1-1988 (POSIX).
*/
#undef POSIX

/*
* POSIXJOBSThis system supports the optional IEEE Std 1003.1-1988 (POSIX)
*/
*job control facilities.
*/
#undef POSIXJOBS

/*
 * VFORK
 * This machine has a vfork().
 * It used to be that for job control to work, this define
 * was mandatory. This is not the case any more.
 * If you think you still need it, but you don't have vfork,
 * define this anyway and then do #define vfork fork.
 * I do this anyway on a Sun because of yellow pages brain damage,
 * [should not be needed under 4.1]
 * and on the iris4d cause SGI's fork is sufficiently "virtual"
 * that vfork isn't necessary. (Besides, SGI's vfork is weird).
 * Note that some machines eg. rs6000 have a vfork, but not
 * with the berkeley semantics, so we cannot use it there either.
 */
#define VFORK

/*
 * BSDJOBS
 * You have BSD-style job control (both process groups and
 * a tty that deals correctly
 */
#define BSDJOBS

/*
 * BSDTIMES
 * You have BSD-style process time stuff (like rusage)
 * This may or may not be true. For example, Apple Unix
 * (OREO) has BSDJOBS but not BSDTIMES.
 */
#define BSDTIMES

/*
 * BSDLIMIT
 * You have BSD-style resource limit stuff (getrlimit/setrlimit)
 */
#define BSDLIMIT

/*
 * TERMIO
 * You have struct termio instead of struct sgttyb.
 * This is usually the case for SYSV systems, where
 * BSD uses sgttyb. POSIX systems should define this
 * anyway, even though they use struct termios.
 */
#undef TERMIO

/*
 * SYSVREL
 * Your machine is SYSV based (HPUX, A/UX)
 * NOTE: don't do this if you are on a Pyramid -- tcsh is
*built in a BSD universe.
*Set SYSVREL to 1, 2, 3, or 4, depending the version of System V
*you are running. Or set it to 0 if you are not SYSV based
*/
#define SYSVREL0

/*
 * YPBUGSWork around Sun YP bugs that cause expansion of ~username
 *to send command output to /dev/null
 */
#undef YPBUGS

/******************** local defines ******************/
#endif /* _h_config */

1.953 libteam 1.27 5.el7
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1.957 diffutils 3.3-4.el7

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1.958 libss 1.42.9 13.el7

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Theodore Ts'o
23-June-2007

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Gadi Oxman, August 1995

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <ttys@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <ttys@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007) */
*/
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

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

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DAMAGE.

This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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General Public License can be found in /usr/share/common-licenses/LGPL-2.
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image
real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

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

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
$(MV) pic/$($(BSD_LIB)
$(RM) -f $(OBJS)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) $(BSD_LIB))
install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $($(BSD_LIB)
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
install-strip: install
install-shlibs-strip: install-shlibs
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f $(OBJS)
This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

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

From the original distribution:

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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DAMAGE.

This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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1.959 fast-infoset 1.2.10

1.960 gstreamer 1.10.4-2.el7

1.960.1 Available under license:

This part of the FAQ is based on a series of questions we asked the FSF to understand how the GPL works and how patents affects the GPL. These questions were answered by the FSF lawyers, so we view them as the final interpretation on how the GPL and LGPL interact with patents in our opinion. This consultancy was paid for by Fluendo in order to obtain clear and quotable answers. These answers were certified by the FSF lawyer team and verified by FSF lawyer and law professor Eben Moglen.
Can someone distribute the combination of

GStreamer, the LGPL library
MyPlayer, a GPL playback application
The binary-only Sorenson decoder
together in one distribution/operating system? If not, what needs to be changed to make this possible?

This would be a problem, because the GStreamer and MyPlayer licenses would forbid it. In order to link GStreamer to MyPlayer, you need to use section 3 of the LGPL to convert GStreamer to GPL. The GPL version of GStreamer forbids linking to the Sorenson decoder. Anyway, the MyPlayer GPL license forbids this.

If the authors of MyPlayer want to permit this, we have an exception for them: the controlled interface exception from the FAQ. The idea of this is that you can't get around the GPL just by including a LGPL bit in the middle.

Note: MyPlayer is a completely fictitious application at the time of writing.

Suppose Apple wants to write a binary-only proprietary plugin for GStreamer to decode Sorenson video, which will be shipped stand-alone, not part of a package like in the question above. Can Apple distribute this binary-only plugin?
Yes, modulo certain reverse engineering requirements in section 6 of the LGPL.

You may not distribute the plug-in with the GPL application. Distributing the plug-in alone, with the knowledge that it will be used primarily by GPL software is a bit of an edge case. We will not advise you that it would be safe to do so, but we also will not advise you that it would be absolutely forbidden.

Can someone in a country that does not have software patents distribute code covered by US patents under the GPL to people in, for example, Norway? If he/she visits the US, can he/she be arrested?

Yes, he can. No, there are no criminal penalties for patent infringement in the US.
Can someone from the US distribute software covered by US patents under the GPL to people in Norway? To people in the US?

This might infringe some patents, but the GPL would not forbid it absent some actual restriction, such as a court judgement or agreement. The US government is empowered to refuse importation of patent infringing devices, including software.

There are a lot of GPL- or LGPL-licensed libraries that handle media codecs which have patents. Take mad, an mp3 decoding library, as an example. It is licensed under the GPL. In countries where patents are valid, does this invalidate the GPL license for this project?

The mere existence of a patent which might read on the program does not change anything. However, if a court judgement or other agreement prevents you from distributing libmad under GPL terms, you can not distribute it at all.

The GPL and LGPL say (sections 7 and 11):

If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all.

The GPL and LGPL say (sections 7 and 11):
So let's say there is a court judgement. Does this mean that the GPL license is invalid for the project everywhere, or only in the countries where it conflicts with the applicable patents?

</para>
</question>

<answer>
<para>
The GPL operates on a per-action, not per-program basis. That is, if you are in a country which has software patents, and a court tells you that you cannot distribute (say) libmad in source code form, then you cannot distribute libmad at all. This doesn't affect anyone else.

</para>
</answer>

<qandaentry>
<question id="legal-gpl-and-binary">
<para>
Patented decoding can be implemented in GStreamer either by having a binary-only plugin do the decoding, or by writing a plugin (with any applicable license) that links to a binary-only library. Does this affect the licensing issues involved in regards to GPL/LGPL?

</para>
</question>

<answer>
<para>
No.
</para>
</answer>

<qandaentry>
<question id="legal-gpl-patent-distribution">
<para>
Is it correct that you cannot distribute the GPL mad library to decode mp3’s, *even* in the case where you have obtained a valid license for decoding mp3?

</para>
</question>

<answer>
<para>
The only GPL-compatible patent licenses are those which are open to all parties possessing copies of GPL software which practices the teachings of the patent.
</para>
</answer>
If you take a license which doesn't allow others to distribute
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Version 2, June 1991

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

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

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1.961 libxmu 1.1.2 2.el7

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  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
  xmlns:xi="http://www.w3.org/2001/XInclude"
  xmlns:db="http://docbook.org/ns/docbook">

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- Local variables:
  - mode: sgml
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clarify this fact.

* configure.ac, Makefile.am: The original versions were derived from the
ones in the XML Catalog Manager project, revision 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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**1.975 kbd 1.15.5 15.el7**

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```
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#
0 leshort 0x0436 psf screen font data
>2 byte 0 256 characters, no index
>2 byte 1 512 characters, no index
>2byte2256 characters, Unicode index
>2byte3512 characters, Unicode index
>2byte4256 characters, Unicode level 2 index
>2byte5512 characters, Unicode level 2 index
>3byte8x%d
#
# PC Screen (console) Fonts - psf2 header
#
0 lelong0x864ab572psf2 screen font data
>12lelong&1 1 with Unicode index
>16lelongﲝ x d glyphs
>28lelongﲨ d
>24lelong jsx%d

rJ
```

---
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size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---
#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)
/*
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 *
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*/

Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57c721e38d1266c2df055067c18f2cf9 bsd.img

---layout--------

__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
-------------------
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout--------

__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
-------------------
__ts_dev__1 2048 4095 1024 83 Linux

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

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Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout--------
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start end size fstype [fsise bsize cpg]
c: 4096 20479 16384 unused 0 0
d: 0 16064 16065 unused 0 0

BSD disklabel command (m for help):
Command (m for help):
-------------------

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start end size fstype [fsize bsize cpg]
a: 4096 6144 2049 4.2BSD 0 0 0
c: 4096 20479 16384 unused 0 0
d: 0 16064 16065 unused 0 0

BSD disklabel command (m for help):
Command (m for help):
-------------------
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0 unused 5 4.1BSD 9 4.4LFS d boot
1 swap 6 Eighth Edition a unknown e ADOS
2 Version 6 7 4.2BSD b HPFS f HFS
3 Version 7 8 MS-DOS c ISO-9660 10 AdvFS
4 System V

BSD disklabel command (m for help):
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1.982 uclibc busybox

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jseward@bzip.org
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Additional -

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File: PSReadLine

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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h
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PackageManagement
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PowerShell 6.0

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powershell-preview-7.0.0_preview.6-1

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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File: PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-
powershells-built-in-h

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File: PSReadLine
https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.1, November 17th, 2003

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   Jean-loup Gailly        Mark Adler
   jloup@gzip.org          madler@alumni.caltech.edu

   The data format used by the zlib library is described by RFCs (Request for
   Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt
   (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
*/

1.1002 javax-servlet-api 4.0.0

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.1010 python-linux-procfs 0.4.9 4.el7

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 *Stelian Pop <stelian@popies.net>, 1999-2000
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Additional -

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File: PSReadLine
https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershe

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Additional -

---------------------------------------------
File: PSReadLine
---------------------------------------------

https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File: Hashtables from ConvertFrom-json
----------------------------------------------

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PackageManagement
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NuGet.Packaging.Core.Types
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PowerShell 6.0

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1.1032 rootfiles 8.1 11.el7

1.1032.1 Available under license :
    Summary: The basic required files for the root user's directory
    Name: rootfiles
    Version: 8.1
    Release: 11%{?dist}
    License: Public Domain
Group: System Environment/Base

# This is a Red Hat maintained package which is specific to
# our distribution. Thus the source is only available from
# within this srpm.
Source0: dot-bashrc
Source1: dot-bash_profile
Source2: dot-bash_logout
Source3: dot-tcshrc
Source4: dot-cshrc

Buildroot: %{_tmppath}/%{name}-%{version}-%{release}-root-%{__id_u} -n
BuildArch: noarch

%description
The rootfiles package contains basic required files that are placed
in the root user's account. These files are basically the same
as those in /etc/skel, which are placed in regular
users' home directories.

%prep

%install
rm -rf $RPM_BUILD_ROOT
mkdir -p $RPM_BUILD_ROOT/root

for file in %{SOURCE0} %{SOURCE1} %{SOURCE2} %{SOURCE3} %{SOURCE4} ; do
  f=`basename $file`
  install -p -m 644 $file $RPM_BUILD_ROOT/root/${f//dot-/.}
done

%clean
rm -rf $RPM_BUILD_ROOT

%files
%defattr(-,root,root,-)
%config(noreplace) /root/.[A-Za-z]*

%changelog
* Fri Dec 27 2013 Daniel Mach <dmach@redhat.com> - 8.1-11
  - Mass rebuild 2013-12-27

* Thu Feb 14 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-10
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild

* Sat Jul 21 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-9
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild
* Sat Jan 14 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-8
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild

* Wed Feb 09 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-7
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild

* Sun Jul 26 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-6
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_12_Mass_Rebuild

* Mon Mar 30 2009 Ondrej Vasik <ovasik@redhat.com> - 8.1-5
  - removed clear from dot-bash_logout (synchronized with bash,
    related to #429406)
  - removed unset USERNAME from dot-bash_profile (synchronized with
    bash, related to #196735)

* Mon Mar 23 2009 Phil Knirsch <pknirsch@redhat.com> - 8.1-4
  - Added the "we-are-upstream" comments according to Fedora review (#226376)
  - Added -p option to install to preserve timestamps (#226376)

* Wed Feb 25 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-3
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_11_Mass_Rebuild

* Fri Oct 31 2008 Ondrej Vasik <ovasik@redhat.com> - 8.1-2
  - Add dist tag, fix a few rpmlint issues, rebuild due to
    wrong vendor (#451229)
  - Added ncurses requirement(#469390)

* Wed Jul 12 2006 Jesse Keating <jkeating@redhat.com> - 8.1-1.1.1
  - rebuild

* Fri Dec 09 2005 Jesse Keating <jkeating@redhat.com>
  - rebuilt

* Fri Dec 3 2004 Bill Nottingham <notting@redhat.com> 8.1-1
  - restore tcsh prompt into .tcshrc (#141782)

* Wed Sep 22 2004 Bill Nottingham <notting@redhat.com> 8-1
  - sync files with current /etc/skel stuff
  - remove Xresources (#75666)

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
  - rebuilt

* Wed Dec 11 2002 Tim Powers <timp@redhat.com> 7.2-5
  - rebuild
* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Thu Jul 5 2001 Preston Brown <pbrown@redhat.com> 7.2-1
  - /sbin stuff out of PATH, moved into /etc/profile

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
  - automatic rebuild

* Tue Jul 11 2000 Preston Brown <pbrown@redhat.com>
  - fix .tcshrc

* Mon Jul 3 2000 Jakub Jelinek <jakub@redhat.com>
  - don’t assume ASCII ordering in glob pattern

* Sat Jun 10 2000 Bill Nottingham <notting@redhat.com>
  - rebuild
  - fix some path stuff (#11191)

* Tue Apr 18 2000 Bill Nottingham <notting@redhat.com>
  - mv .Xdefaults -> .Xresources (#10623)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
  - auto rebuild in the new build environment (release 5)

* Tue Jan 12 1999 Jeff Johnson <jbj@redhat.com>
  - add %%clean (#719)

* Tue Dec 29 1998 Cristian Gafton <gafton@redhat.com>
  - build for 6.0

* Wed Oct 9 1998 Bill Nottingham <notting@redhat.com>
  - remove /root from %%files (it’s in filesystem)

* Sun Aug 23 1998 Jeff Johnson <jbj@redhat.com>
  - portability fix for .cshrc (problem #235)
  - change version to be same as release.

* Tue Sep 09 1997 Erik Troan <ewt@redhat.com>
  - made a noarch package
* Thu Mar 20 1997 Erik Troan <ewt@redhat.com>
- Removed .Xclients and .Xsession from package, added %%pre to back up old .Xclients if necessary.

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1.1033.1 Available under license :
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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1.1035 sysfsutils 2.1.0-16.el7.

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[This is the first released version of the library GPL. It is
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<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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

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

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

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

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

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

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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a) The modified work must itself be a software library.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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

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Appendix: How to Apply These Terms to Your New Libraries

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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!

<HTML>
<!-- SECTION: Getting Started -->
<HEAD>
<TITLE>Software License Agreement</TITLE>
<Link REL="STYLESHEET" TYPE="text/css" HREF="../cups-printable.css"> </HEAD>
<BODY>

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<H2 CLASS="title">Introduction</H2>

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</ol>

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<ol type="a">
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</ol>

</ol>

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<OL START="11">

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File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in libsensor and sensors.
* Mark M. Hoffman
  Many improvements to the libsense configuration file scanner.
* Jean Delvare
  New libsensor API, and migration of sensors and sensord thereto.
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1.1061 libxml 2.9.1 6.el7_2.3

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1.1062 unzip 6.0-19.el7

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The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program.

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*
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May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS),
71150.2731@compuserve.com]:
"He says that he thought that whoever contacted him understood that
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Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
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The decompression core code for the deflate method (inflate.[ch],
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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Preamble

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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/* -*- buffer-read-only: t -*-
   !!!!!!! DO NOT EDIT THIS FILE !!!!!!!
   This file is built by regen_perly.pl from perly.y.
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#ifdef PERL_CORE
/* A Bison parser, made by GNU Bison 2.3. */

/* Skeleton interface for Bison's Yacc-like parsers in C */

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1.1072 orai18n 12.1.0.2.0
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@page

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For example, on rare occasions, there may be a special need to
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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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

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

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

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
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It may happen that this requirement contradicts the license
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.1075 python-libs 2.7.5 86.el7
1.1075.1 Available under license:
.. highlightlang:: none

.. _history-and-license:

*******************
History and License
*******************

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

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

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

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

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Mersenne Twister

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
:func:`getnameinfo`, which are coded in separate source files from the WIDE

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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at
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The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
-------------------------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard

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

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

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* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/EventLoopTaskQueueFactory.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/CombinedChannelDuplexHandler.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/socket/oio/OioSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/oio/AbstractOioMessageChannel.java
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* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java
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* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/oio/package-info.java
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* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/nio/package-info.java
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* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/ChannelFutureListener.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/socket/package-info.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/local/package-info.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/nio/package-info.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/socket/OioServerSocketChannel.java
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/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its { @link ChannelPipeline }.  

 * <p>
 * { @link ChannelHandler } itself does not provide many methods, but you usually have to implement one of its subtypes:
 * <ul>
 * <li> { @link ChannelInboundHandler } to handle inbound I/O events, and</li>
 * <li> { @link ChannelOutboundHandler } to handle outbound I/O operations. </li>
 * </ul>
 * </p>

 * Alternatively, the following adapter classes are provided for your convenience:
 * <ul>
 * <li> { @link ChannelInboundHandlerAdapter } to handle inbound I/O events, </li>

*/
* <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
* <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>
* </p>
* For more information, please refer to the documentation of each subtype.
* </p>
*
* <h3>The context object</h3>
*
* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext} object. A {@link ChannelHandler} is supposed to interact with the
* {@link ChannelPipeline} it belongs to via a context object. Using the
* context object, the {@link ChannelHandler} can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using {@link AttributeKey}s) which is specific to the handler.
* *
* <h3>State management</h3>
*
* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* *
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
* 
*     <b>private boolean loggedIn;</b>
* 
*     {<code class="language-java" @Override>
*     public void channelRead0(<@link ChannelHandlerContext> ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             <b>loggedIn = true;</b>
*         } else (message instanceof GetDataMessage) {
*             if (!loggedIn) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*         }
*     }
*     ...
* }
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where a unauthenticated client can get
* the confidential information:
* &lt;pre&gt;
* // Create a new handler instance per channel.
* // See [ChannelInitializer#initChannel(Contract)]
* public class DataServerInitializer extends ChannelInitializer&lt;Contract&gt; {
*     @Override
*     public void initChannel(Contract channel) {
*         channel.pipeline().addLast("handler", new DataServerHandler());
*     }
* }
* &lt;/pre&gt;
*
* &lt;h4&gt;Using AttributeKey&lt;/h4&gt;
*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use AttributeKey which is provided by
* ChannelHandlerContext:
* &lt;pre&gt;
* public interface Message {
*     // your methods here
* }
* {
*     @code @Sharable
*     public class DataServerHandler extends SimpleChannelInboundHandler&lt;Message&gt; {
*         private final AttributeKey&lt;Boolean&gt; auth = AttributeKey.valueOf("auth");
*         @Override
*         public void channelRead(ChannelHandlerContext ctx, Message message) {
*             Attribute&lt;Boolean&gt; attr = ctx.attr(auth);
*             if (message instanceof LoginMessage) {
*                 authenticate((LoginMessage) o);
*                 attr.set(true);
*             } else if (message instanceof GetDataMessage) {
*                 if (Boolean.TRUE.equals(attr.get())) {
*                     ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*                 } else {
*                     fail();
*                 }
*             }
*         }
*     }
* }
* &lt;/pre&gt;
* Now that the state of the handler is attached to the ChannelHandlerContext, you can add the
* same handler instance to different pipelines:
*<pre>
* public class DataServerInitializer extends @link ChannelInitializer\{\}@link Channel\{\} {
*
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
* 
*     @code @Override
*     public void initChannel(@link Channel\{\} channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }
* </pre>
*
*<h4>The @code @Sharable annotation</h4>
*<p>
*In the example above which used an @link AttributeKey, you might have noticed the @code @Sharable annotation.
*<p>
*If a @link ChannelHandler is annotated with the @code @Sharable annotation, it means you can create an instance of the handler just once and add it to one or more @link ChannelPipeline\{\}'s multiple times without a race condition.
*<p>
*If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.
*<p>
*This annotation is provided for documentation purpose, just like a href="http://www.javaconcurrencyinpractice.com/annotations/doc/" the JCIP annotations</a>.
*<p>
*<h3>Additional resources worth reading</h3>
*<p>
*Please refer to the @link ChannelHandler, and @link ChannelPipeline to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.
*/

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Additional -

File: PSReadLine

https://github.com/Izybkr/PSReadLine

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----------------------------------------------
File: HashTables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powersheells-built-in-h

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

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

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

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(This file is under construction.)-*- text -*.-

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.
Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (objc-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (objc-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.
Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bug fixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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Additional -

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File: PSReadLine
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https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.1093 open-ldap 2.4.44-20.el7

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Version 3, 29 June 2007

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HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mitiam.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
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Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn’t
made it into the released version of the collector, yet.)

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as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a
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of an advantage over competing non-free programs. These disadvantages
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For example, on rare occasions, there may be a special need to
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library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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Ty Coon, President of Vice

That's all there is to it!
/* Definitions for BSD assembler syntax for Intel 386
   (actually AT&T syntax for insns and operands,
   adapted to BSD conventions for symbol names and debugging.)
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*/

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*/
/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
underscores, we are using prefix `.'s to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
   that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE, SIZE)  
fprintf (FILE, "\t.space "HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \
( fputs (".comm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \
( fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))
/* This is how to output an assembler line
   that says to advance the location counter
   to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)
if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
   the symbol_ref name of an internal numbered label where
   PREFIX is the class of label and NUM is the number within the class.
   This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)
sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1
#define DBX_CONTIN_LENGTH 0

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#!/usr/bin/python
#
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# the Free Software Foundation; either version 3, or (at your option)
# any later version.

# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.
import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '
')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
        ''])
def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('	')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True
    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True
# Skip configure files produced by autoconf
if filename == 'configure':
    if os.path.exists (base + '.ac'):
        return True
    if os.path.exists (base + '.in'):
        return True
return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9]{0,}[\-0-9,\s\[\s\+]\[0-9\]]

        # Non-whitespace characters in a copyright holder's name.
        name = '\[\w,.-]\'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile (self.year_re + self.continuation_re)

        # 1: 'Copyright (C)', etc.
        self.copyright_re = re.compile (self.year_re + self.continuation_re
            | '\[Cc\]opyright\s+%s\s+'
            | '@set\s+copyright\[\w-\]+\s+'
        )
# 2: the years. Include the whitespace in the year, so that
# we can remove any excess.
'\s*(?:' + ranges + ')\s*'

# 3: 'by ', if used
'(by\s+)?'

# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'(\' + name + '(\s+?\s*\s*name + ')\)?)

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
                                      re.IGNORECASE)
self.comment_re = re.compile('#+|[^*]+|;+|%+|//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ', '.
self.separator = ', '

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find ('')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find ('', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year
def __str__(self):
    return 'unrecognised year: ' + self.year

def parse_year(self, string):
    year = int(string)
    if len(string) == 2:
      if year > 70:
        return year + 1900
    elif len(string) == 4:
        return year
    raise self.BadYear(string)

def year_range(self, years):
    year_list = [self.parse_year(year)
                 for year in self.year_re.findall(years)]
    assert len(year_list) > 0
    return (min(year_list), max(year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value'):
        return years
    (min_year, max_year) = self.year_range(years)
    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line
def is_complete (self, match):
    holder = match.group (4)
    return (holder
        and (holder not in self.holder_prefixes
            or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith ('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != ':
            self.errors.report (pathname,
                'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete (match):
            try:
                next_line = file.next()
            except StopIteration:
                break
            # If the next line doesn't look like a proper continuation,
            # assume that what we've got is complete.
            continuation = self.strip_continuation (next_line)
            if not self.continuation_re.match (continuation):
                break
            # Merge the lines for matching purposes.
            orig_line += next_line
            line = line.rstrip() + ' ' + continuation
            next_line = None

        # Rematch with the longer line, at the original position.
        match = self.copyright_re.match (line, match.start())
        assert match

        holder = match.group (4)

        # Use the filter to test cases where markup is getting in the way.
        if filter.by_package_author (dir, filename):
assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname, 'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
            + ' ' + canon_form + self.separator
            + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)'
    elif intro.endswith ('(c)'):
        intro = intro[:-3] + '(C)'
    line = line[:match.start (1)] + intro + line[match.end (1):]

    # Strip trailing whitespace
    line = line.rstrip() + '

def process_file(self, dir, filename, filter):
    pathname = os.path.join(dir, filename)
    if filename.endswith('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove(pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter(dir, filename)
    with open(pathname, 'r') as file:
        prev = None
        for line in file:
            if not (line_filter and line_filter.match(line)):
                match = self.copyright_re.search(line)
                if match:
                    res = self.update_copyright(dir, filename, filter,
                                                 file, line, match)
                    (this_changed, line, next_line) = res
                    changed = changed or this_changed
                # Check for copyright lines that might have slipped by.
                elif self.other_copyright_re.search(line):
                    self.errors.report(pathname,
                                       'unrecognised copyright: %s' % line.strip())
                    lines.append(line)
                    line = next_line
            # If something changed, write the new file out.
            if changed and self.errors.ok():
                tmp_pathname = pathname + '.tmp'
                with open(tmp_pathname, 'w') as file:
                    for line in lines:
                        file.write(line)
                if self.use_quilt:
                    subprocess.call(['quilt', 'add', pathname])
                os.rename(tmp_pathname, pathname)

def process_tree(self, tree, filter):

return (line != orig_line, line, next_line)

def process_file(self, dir, filename, filter):
    pathname = os.path.join(dir, filename)
    if filename.endswith('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove(pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter(dir, filename)
    with open(pathname, 'r') as file:
        prev = None
        for line in file:
            if not (line_filter and line_filter.match(line)):
                match = self.copyright_re.search(line)
                if match:
                    res = self.update_copyright(dir, filename, filter,
                                                 file, line, match)
                    (this_changed, line, next_line) = res
                    changed = changed or this_changed
                # Check for copyright lines that might have slipped by.
                elif self.other_copyright_re.search(line):
                    self.errors.report(pathname,
                                       'unrecognised copyright: %s' % line.strip())
                    lines.append(line)
                    line = next_line
            # If something changed, write the new file out.
            if changed and self.errors.ok():
                tmp_pathname = pathname + '.tmp'
                with open(tmp_pathname, 'w') as file:
                    for line in lines:
                        file.write(line)
                if self.use_quilt:
                    subprocess.call(['quilt', 'add', pathname])
                os.rename(tmp_pathname, pathname)
for (dir, subdirs, filenames) in os.walk (tree):
    # Don't recurse through directories that should be skipped.
    for i in xrange (len (subdirs) - 1, -1, -1):
        if filter.skip_dir (dir, subdirs[i]):
            del subdirs[i]

    # Handle the files in this directory.
    for filename in filenames:
        if filter.skip_file (dir, filename):
            sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
        else:
            self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
                        self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
                        self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...

            Options:
' % sys.argv[0])

        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))

        sys.stdout.write ('Directories:
')

        format = '%-25s'
        i = 0
        for (dir, filter) in self.dirs:
i += 1
if i % 3 == 0 or i == len (self.dirs):
    sys.stdout.write (dir + 'n')
else:
    sys.stdout.write (format % dir)
sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[1:] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                self.copyright.process_tree (dir, filter)
                if count == 0:
                    self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
                    sys.exit (0 if self.errors.ok() else 1)

#----------------------------------------------------------------------------
class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
def skip_file (self, dir, filename):
    if filename.endswith ('.m4'):
        pathname = os.path.join (dir, filename)
        with open (pathname) as file:
            # Skip files imported from gettext.
            if file.readline ().find ('gettext-') >= 0:
                return True
        return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
            # Not part of GCC
            'math-68881.h',
        ])

        self.skip_dirs |= set ([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ])

        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

        self.fossilised_files |= set ([
            # Old news won't be updated.
            'ONEWS',
        ])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
        ])

    def _init__ (self):
        GenericFilter._init__ (self)
def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set (['
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (['
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (['
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',
        ])
# Imported from upstream
'classpath',
'libltdl',
)

def get_line_filter(self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile(r'.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile(r'.*icSigCopyrightTag')
    return GenericFilter.get_line_filter(self, dir, filename)

class LibMudflapFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set(
            # Handled separately.
            'testsuite',
        )

class LibStdCxxFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set(
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        )

        self.skip_dirs |= set(
            # Contains automatically-generated sources.
            'html',
            # The testsuite data files shouldn't be changed.
            'data',
            # Contains imported images
            'images',
        )

        self.own_files |= set(
            # Contains markup around the copyright owner.
            'spine.xml',
        )

def get_line_filter(self, dir, filename):
if filename == 'boost_concept_check.h':
    return re.compile ('// (C) Copyright Jeremy Siek')
return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('The Free Software Foundation', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Software Foundation, Inc.', canon_fsf)

        self.add_external_author ('ARM')
        self.add_external_author ('AdaCore')
        self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author ('Cavium Networks.')
        self.add_external_author ('Faraday Technology Corp.')
        self.add_external_author ('Florida State University')
        self.add_external_author ('Greg Colvin and Beman Dawes.')
        self.add_external_author ('Hewlett-Packard Company')
        self.add_external_author ('Information Technology Industry Council.')
        self.add_external_author ('James Theiler, Brian Gough')
        self.add_external_author ('Makoto Matsumoto and Takuji Nishimura,')
        self.add_external_author ('National Research Council of Canada.')
        self.add_external_author ('Peter Dimov and Multi Media Ltd.')
        self.add_external_author ('Peter Dimov')
        self.add_external_author ('Pipeline Associates, Inc.')
        self.add_external_author ('Regents of the University of California.')
        self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
        self.add_external_author ('Silicon Graphics')
        self.add_external_author ('Stephen L. Moshier')
        self.add_external_author ('Sun Microsystems, Inc. All rights reserved.')
        self.add_external_author ('The Go Authors. All rights reserved.')
        self.add_external_author ('The Go Authors. All rights reserved.')
        self.add_external_author ('The Regents of the University of California.')
        self.add_external_author ('Unicode, Inc.')
        self.add_external_author ('University of Toronto')

class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)
self.add_dir('.', TopLevelFilter())
# boehm-gc is imported from upstream.
self.add_dir('config', ConfigFilter())
# contrib isn't really part of GCC.
self.add_dir('fixincludes')
self.add_dir('gcc', GCCFilter())
self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
self.add_dir('gnattools')
self.add_dir('include')
self.add_dir('libada')
self.add_dir('libatomic')
self.add_dir('libbacktrace')
self.add_dir('libcpp', LibCppFilter())
self.add_dir('libdecnumber')
# libffi is imported from upstream.
self.add_dir('libgcc', LibGCCFilter())
self.add_dir('libgfortran')
self.add_dir('libgomp')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libjava', LibJavaFilter())
self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir('libmudflap', LibMudflapFilter())
self.add_dir(os.path.join('libmudflap', 'testsuite'),
TestsuiteFilter())
self.add_dir('libobjc')
self.add_dir('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = ['gcc',
'libada',
'libatomic',
'libbacktrace',
'libcpp',
'libdecnumber',
'libgcc',
'libgfortran',
'libgomp',
'libibm',
'libmudflap',
'libobjc',
'libstdc++-v3',]
GCCCmdLine().main()
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{} 1989, 1991 Free Software Foundation, Inc.
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@node Copying
@c man begin DESCRIPTION
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```
@smallexample
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year}  @var{name of author}

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@end smallexample

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```
@smallexample
Gnomovision version 69, Copyright (C) @var{year}  @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details
type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show
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commands you use may be called something other than @samp{show w} and
@samp{show c}; they could even be mouse-clicks or menu items---whatever
suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a ``copyright disclaimer'' for the program, if
necessary. Here is a sample; alter the names:
@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
@end example

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Version 3, 29 June 2007

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@end smallexample
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The ``source code'' for a work means the preferred form of the work for making modifications to it. ``Object code'' means any non-source form
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@end enumerate

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@example
@example
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@end example

@end example
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@c man end

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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is <em>not</em> the same as the class <code>java.security.Permission</code>.
 * @version 0.0
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
/**
 * This method tests whether or not a specified <code>Permission</code>
* (passed as an <code>Object</code>) is the same as this permission.

* @param perm The permission to check for equality

* @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise

*/
boolean equals (Object perm);

/**
* This method returns this <code>Permission</code> as a <code>String</code>

* @return A <code>String</code> representing this permission.

*/
String toString();

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@c End:

@c man end
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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
underscores, we are using prefix `.s to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */
#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
# define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
# define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE) 
fprintf (FILE, "\t.space "HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) 
(fputc (FILE, "\t.comm "), (FILE))\ 
assemble_name ((FILE), (NAME)),
fprintf ((FILE), ",%u\n", (int)(ROUNDED))

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) 
(fputc (FILE, "\t.lcomm "), (FILE))\ 
assemble_name ((FILE), (NAME)),
fprintf ((FILE), ",%u\n", (int)(ROUNDED))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) 
(fputc (FILE, "\t.lcomm "), (FILE))\ 
assemble_name ((FILE), (NAME)),
fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG) 
if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.  
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\
    sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "_

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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terms of your choice, provided that you also meet, for each linked
independent module, the terms and conditions of the license of that
module. An independent module is a module which is not derived from
or based on this library. If you modify this library, you may extend
this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version. */

doclet-exception
package gnu.classpath.tools.taglets;

doclet-import
import java.util.Map;

doclet-import
import com.sun.tools.doclets.Taglet;

doclet-import
import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
doclet-public
public class CopyrightTaglet implements Taglet {

    // Static variables
    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    // Getter method
    public String getName() {
        return NAME;
    }

    // Setter methods
    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
        return true;
    }
}
public boolean isInlineTag() {
    return false;
}

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    }
    else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
    }
    if (haveValidTag) {
        StringBuffer result = new StringBuffer();
        result.append("<dl>\n");
        for (int i = 0; i < tags.length; i++) {
            if (tags[i].text().length() > 0) {
                result.append("\t\n\t<dt><i>Copyright &copy; " + tags[i].text() + "</i></dt>\n");
            }
        }
        result.append("</dl>\n");
        return result.toString();
    }
    else {
        return null;
    }
}

#!/usr/bin/python
#
# Copyright (C) 2013 Free Software Foundation, Inc.
#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        pass
if filename:
    string = filename + ' ' + string
sys.stderr.write (string + '\n')
self.num_errors += 1

def ok (self):
    return self.num_errors == 0

class GenericFilter:
    def __init__ (self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set (
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.m4',
            'ltstool.m4',
            'ltversion.m4',
            'lt~obsolete.m4',
            'missing',
            'mkdep',
            'mknstooldirs',
            'move-if-change',
            'shlibpath.m4',
            'symlink-tree',
            'ylwrap',
        )
# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',
}

def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile('	')
    return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext(os.path.join(dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists(base + '.am'):
            return True
    # Skip files produced by autogen
    if (os.path.exists(base + '.def')
        and os.path.exists(base + '.tpl')):
        return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
            return True
        if os.path.exists(base + '.in'):
            return True
    return False

def skip_dir(self, dir, subdir):
    return subdir in self.skip_dirs
def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9](?:[-0-9,\.\s]\s+and\s+)*[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '\[\w.,-\]'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile (
            # 1: 'Copyright (C)', etc.
            '\([Cc]opyright\|
            '\[[Cc]opyrights+\[[Cc]\]\]
            '\[[Cc]opyrights+%s
            '\[[Cc]opyrights+&copy;
            '\[[Cc]opyrights+@copyright\{ \}
            '@set\s+copyright\[\w-\]+\)'

            # 2: the years. Include the whitespace in the year, so that
            # we can remove any excess.
            '\s*(\?\? + ranges + '.?
            '@value\{[^\{]*\}\)\s*')

            # 3: 'by ', if used
            '\(by\s+\)'?

            # 4: the copyright holder. Don't allow multiple consecutive
            # spaces, so that right-margin gloss doesn't get caught
            # (e.g. gnat_ugn.texi).
A regexp for notices that might have slipped by. Just matching
'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',
                                     re.IGNORECASE)

# A regexp for notices that might have slipped by. Just matching
self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ', '.
self.separator = '

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ') 
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + str(self.year)

    def parse_year (self, string):
        year = int (string)
        if len (string) == 2:
            if year > 70:
                return year + 1900
            elif len (string) == 4:
                return year
            raise self.BadYear (string)
def year_range(self, years):
    year_list = [self.parse_year(year)
                 for year in self.year_re.findall(years)]
    assert len(year_list) > 0
    return (min(year_list), max(year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value):
        return years
    (min_year, max_year) = self.year_range(years)
    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)
intro = match.group(1)
if intro.startswith('@set'):
    # Texinfo year variables should always be on one line
    after_years = line[match.end(2):].strip()
    if after_years != ':
        self.errors.report(pathname,
            'trailing characters in @set: ' + after_years)
        return (False, orig_line, next_line)
else:
    # If it looks like the copyright is incomplete, add the next line.
    while not self.is_complete(match):
        try:
            next_line = file.next()
        except StopIteration:
            break
    # If the next line doesn’t look like a proper continuation,
    # assume that what we've got is complete.
    continuation = self.strip_continuation(next_line)
    if not self.continuation_re.match(continuation):
        break
    # Merge the lines for matching purposes.
    orig_line += next_line
    line = line.rstrip() + ' ' + continuation
    next_line = None
    # Rematch with the longer line, at the original position.
    match = self.copyright_re.match(line, match.start())
    assert match
    holder = match.group(4)
    # Use the filter to test cases where markup is getting in the way.
    if filter.by_package_author(dir, filename):
        assert holder not in self.holders
    elif not holder:
        self.errors.report(pathname, 'missing copyright holder')
        return (False, orig_line, next_line)
    elif holder not in self.holders:
        self.errors.report(pathname, 'unrecognised copyright holder: ' + holder)
        return (False, orig_line, next_line)
    else:
# See whether the copyright is associated with the package
# author.
canon_form = self.holders[holder]
if not canon_form:
    return (False, orig_line, next_line)

# Make sure the author is given in a consistent way.
line = (line[:match.start (4)]
    + canon_form
    + line[match.end (4):])

# Remove any 'by'
line = line[:match.start (3)] + line[match.end (3):]

# Update the copyright years.
years = match.group (2).strip()
try:
    canon_form = self.canonicalise_years (dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report (pathname, str (e))
return (False, orig_line, next_line)

line = (line[:match.start (2)]
    + ' ' + canon_form + self.separator
    + line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right'):  
    intro += ' (C)'
eelif intro.endswith ('(c)'): 
    intro = intro[:-3] + '(C)'
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '
'
return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return
lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)
with open (pathname, 'r') as file:
    prev = None
    for line in file:
        while line:
            next_line = None
            # Leave filtered-out lines alone.
            if not (line_filter and line_filter.match (line)):
                match = self.copyright_re.search (line)
                if match:
                    res = self.update_copyright (dir, filename, filter, file, line, match)
                    (this_changed, line, next_line) = res
                    changed = changed or this_changed
            # Check for copyright lines that might have slipped by.
            elif self.other_copyright_re.search (line):
                self.errors.report (pathname, 'unrecognised copyright: %s' % line.strip())
                lines.append (line)
            line = next_line

        # If something changed, write the new file out.
        if changed and self.errors.ok():
            tmp_pathname = pathname + '.tmp'
            with open (tmp_pathname, 'w') as file:
                for line in lines:
                    file.write (line)
                if self.use_quilt:
                    subprocess.call (['quilt', 'add', pathname])
            os.rename (tmp_pathname, pathname)

    def process_tree (self, tree, filter):
        for (dir, subdirs, filenames) in os.walk (tree):
            # Don't recurse through directories that should be skipped.
            for i in xrange (len (subdirs) - 1, -1, -1):
                if filter.skip_dir (dir, subdirs[i]):
                    del subdirs[i]

            # Handle the files in this directory.
            for filename in filenames:
                if filter.skip_file (dir, filename):
                    sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
                else:
self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', """quilt add" files before changing them",
                        self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
                        self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...

        Options:
        ' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))
        sys.stdout.write ('
Directories:
')
        format = '%-25s'
        i = 0
        for (dir, filter) in self.dirs:
            i += 1
            if i % 3 == 0 or i == len (self.dirs):
                sys.stdout.write (dir + '
')
            else:
                sys.stdout.write (format % dir)
        sys.exit (0)

    def o_quilt (self, option):
        self.copyright.set_use_quilt (True)

    def o_this_year (self, option):
        self.copyright.include_year (time.localtime().tm_year)
def main(self):
    for arg in sys.argv[1:]:
        if arg[1] != '-':
            self.chosen_dirs.append(arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg](arg)
        else:
            self.errors.report(None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len(self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len(self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join(chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith(canon_dir):
                        count += 1
                        self.copyright.process_tree(dir, filter)
                if count == 0:
                    self.errors.report(None, 'unrecognised directory: ' + chosen_dir)
            sys.exit(0 if self.errors.ok() else 1)

#----------------------------------------------

class TopLevelFilter(GenericFilter):
    def skip_dir(self, dir, subdir):
        return True

class ConfigFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

    def skip_file(self, dir, filename):
        if filename.endswith('.m4'):
            pathname = os.path.join(dir, filename)
            with open(pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find('gettext-') >= 0:
                    return True
        return GenericFilter.skip_file(self, dir, filename)

class GCCFilter(GenericFilter):
    def __init__(self):
        pass
GenericFilter.__init__ (self)

self.skip_files |= set (]
    # Not part of GCC
    'math-68881.h',
    ])

self.skip_dirs |= set ([
    # Better not create a merge nightmare for the GNAT folks.
    'ada',

    # Handled separately.
    'testsuite',
    ])

self.skip_extensions |= set ([
    # Maintained by the translation project.
    '.po',

    # Automatically-generated.
    '.pot',
    ])

self.fossilised_files |= set ([
    # Old news won't be updated.
    'ONEWS',
    ])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
            ])

    def skip_file (self, dir, filename):
        # g++.niklas/README contains historical copyright information
# and isn't updated.
if filename == 'README' and os.path.basename(dir) == 'g++.niklas':
    return True
return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ])

def get_line_filter(self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter(self, dir, filename)
class LibMudflapFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Handled separately.
            'testsuite',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])  

        self.skip_dirs |= set([
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])  

        self.own_files |= set([
            # Contains markup around the copyright owner.
            'spine.xml',
        ])  

    def get_line_filter(self, dir, filename):
        if filename == 'boost_concept_check.h':
            return re.compile('// (C) Copyright Jeremy Siek')
        return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright (Copyright):
    def __init__(self, errors):
        Copyright.__init__(self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author('Free Software Foundation', canon_fsf)
        self.add_package_author('Free Software Foundation.', canon_fsf)
        self.add_package_author('Free Software Foundation Inc.', canon_fsf)
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnattools')
        self.add_dir ('include')
        self.add_dir ('libada')
        self.add_dir ('libatomic')
self.add_dir('libbacktrace')
self.add_dir('libcpp', LibCppFilter())
self.add_dir('libdecnumber')
# libffi is imported from upstream.
self.add_dir('libgcc', LibGCCFilter())
self.add_dir('libgfortran')
self.add_dir('libgomp')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libjava', LibJavaFilter())
self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir('libmudflap', LibMudflapFilter())
self.add_dir(os.path.join('libmudflap', 'testsuite'), TestsuiteFilter())
self.add_dir('libobjc')
self.add_dir('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('lto-plugin')
# zlib is imported from upstream.

default_dirs = ['gcc',
                 'libada',
                 'libatomic',
                 'libbacktrace',
                 'libcpp',
                 'libdecnumber',
                 'libgcc',
                 'libgfortran',
                 'libgomp',
                 'libitm',
                 'libmudflap',
                 'libobjc',
                 'libstdc++-v3',
]

GCCCmdLine().main()

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/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 *
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 */

package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
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 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 */
public abstract class Permission implements Guard, Serializable {

    private static final long serialVersionUID = -5636570222231596674L;

    private String name;

    public Permission(String name) {
        this.name = name;
    }

    public void checkGuard(Object obj)
        throws SecurityException
    }

    public abstract void checkPermission(Object obj)

    @param obj the <code>Object</code> being guarded - ignored by this class
    @throws SecurityException if the security check fails
    @see GuardedObject
    @see SecurityManager#checkPermission(Permission)
}
{ 
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 *
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.  
 *
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')'</code>.  
 *
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();
    
    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }
    string = string.append(')');
    return string.toString();
} // class Permission

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris Night Hawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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* m4/ax_func_which_gethostbyname_r.m4

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* m4/ax_func_which_gethostbyname_r.m4

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obligated to do so. If you do not wish to do so, delete this
exception statement from your version. */

package java.security.acl;

/**
 * This interface provides information about a permission that can be
 * granted. Note that this is <em>not</em> the same as the class
 * <code>java.security.Permission</code>.
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 * @version 0.0
 */
public interface Permission
{

 /**
 * This method tests whether or not a specified <code>Permission</code>
 * (passed as an <code>Object</code>) is the same as this permission.
 *
 * @param perm The permission to check for equality
 */
* @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
*
boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 *
 * @return A <code>String</code> representing this permission.
 */
String toString();

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

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

@end enumerate

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

Use a suitable shared library mechanism for linking with the Library. A
suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

@item
Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
@end enumerate

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

@enumerate a
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Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

@item
Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
@end enumerate

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This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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@end enumerate

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@end appendixsubsec How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the
To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ```copyright`` line and a pointer to where the full notice is found.

```
@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year}  @var{name of author}

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

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@end smallexample

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a ```copyright disclaimer`` for the library, if necessary. Here is a sample; alter the names:

```
@smallexample
Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!
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Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version. */

package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.tools.doclets.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:"

    public String getName() {

    }
public boolean inField() {
    return true;
}

public boolean inConstructor() {
    return true;
}

public boolean inMethod() {
    return true;
}

public boolean inOverview() {
    return true;
}

public boolean inPackage() {
    return true;
}

public boolean inType() {
    return true;
}

public boolean isInlineTag() {
    return false;
}

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    }
    else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
haveValidTag = true;
}
}

if (haveValidTag) {
    StringBuffer result = new StringBuffer();
    result.append("<dl>");
    for (int i = 0; i < tags.length; i++) {
        if (tags[i].text().length() > 0) {
            result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>");
        }
    }
    result.append("</dl>");
    return result.toString();
} else {
    return null;
}
}

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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/* Permission.java -- The superclass for all permission objects

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import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 * 
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 */
Permission must be immutable - do not change their state after creation.

@permission's must be immutable - do not change their state after creation.

@author Aaron M. Renn (arenn@urbanophile.com)

@see Permissions

@see PermissionCollection

@since 1.1

@status updated to 1.4

public abstract class Permission implements Guard, Serializable

/**
 * Compatible with JDK 1.1+
 */

private static final long serialVersionUID = -563657022231596674L;

/**
 * This is the name assigned to this permission object.
 */

@serial the name of the permission

private String name;

/**
 * Create an instance with the specified name.
 */

@param name the permission name

public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in <code>SecurityManager</code> with this <code>Permission</code> as its argument. This method returns silently if the security check succeeds or throws an exception if it fails.
 *
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */

public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
if (sm != null)
   sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 * @return the name
 */
public final String getName()
{
   return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')'</code>
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();
    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }
    string = string.append(')');
    return string.toString();
}
} // class Permission
1.1097 xerces-j 2.11.0

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c ispell-local-pdict: "ispell-dict"
c End:

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Version 3, 29 June 2007

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: HashTables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PowerShell 6.0

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$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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>>> unicode-5.0

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1.1121 jetty-jndi 9.4.10.v20180503

1.1122 spring-context 5.1.3.RELEASE

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Protocol Buffers for Go with Gadgets

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http://github.com/gogo/protobuf

Go support for Protocol Buffers - Google's data interchange format

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
    </xsl:call-template>
  </xsl:if>
</xsl:template>

</xsl:stylesheet>
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfe2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and piostream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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Additional -

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File: PSReadLine
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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PackageManagement

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Additional -

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File: PSReadLine
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https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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File: PSReadLine

https://github.com/lzybkr/PSReadLine

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1.1135 trousers 0.3.14 2.el7

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* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.70/javassist-3-18-1-ga-sources.jar/javassist/bytecode/AttributeInfo.java
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* /opt/ws_local/PERMITS_SQL/1013582616_1591370584.70/javassist-3-18-1-ga-sources.jar/javassist/bytecode/analysis/IntQueue.java
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File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershellss-built-in-h

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PackageManagement

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Protocol Buffers for Go with Gadgets

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
-Unix SMB/CIFS implementation.
+trivial database library - standalone version

-trivial database library - private includes
-
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Theodore Ts'o
23-June-2007

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

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:

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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

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

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

image:$ (BSDLIB_LIB)

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

install-shlibs install:: $(BSDLIB_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSDLIB_LIB)


$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

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

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

1.1153 samba-libs 4.9.1-6.el7
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kevin dot Ruland at anheuser-busch dot com
Various bug fixes.

Mike Russo
miker at eai dot com
Bug fix.

Mark E. Armstrong
avail at pacbell dot net
Bug fixes.

Lorin Hochstein
lmh at xiphos dot ca
general bug fixes; bug fixes to condition variables.
Peter Slacik at tatramed dot sk
Bug fixes.
Mumit Khankhan at xraylith dot wisc dot edu
Fixes to work with Mingw32.
Milan Gardian at tatramed dot sk
Bug fixes and reports/analyses of obscure problems.
Aurelio Medina at crt dot com
First implementation of read-write locks.
Graham Dumpleton at ra dot pad dot otc dot telstra dot com dot au
Bug fix in condition variables.
Tristan Savatier at mpegv dot com
WinCE port.
Erik Hensema at hensema dot xs4all dot nl
Bug fixes.
Rich Peters at micro-magic dot com
Todd Owen at lucidcaml dot dropbear dot id dot au
Bug fixes to dll loading.
Jason Nyj at nbnet dot nb dot ca
Implementation of async cancelation.
Fred Forester at eticomm dot net
Kevin D. Clark at cabletron dot com
David Baggett at itasoftware dot com
Bug fixes.
Paul Redondop at matchvision dot com
Scott McCaskell at 3dfx dot com
Bug fixes.
Jef Gearhart at tpssys dot com
Bug fix.
Arthur Kantorak at bexusa dot com
Mutex enhancements.
Steven Reddie at esemer dot com dot au
Bug fix.
Alexander Terekhov at de dot ibm dot com
Re-implemented and improved read-write locks;
(with Louis Thomas) re-implemented and improved condition variables;
enhancements to semaphores;
enhancements to mutexes;
new mutex implementation in 'futex' style;
suggested a robust implementation of pthread_once
similar to that implemented by V.Kliathcko;
system clock change handling re CV timeouts;
bug fixes.
Thomas Pfaff at gmx dot net
Changes to make C version usable with C++ applications;
re-implemented mutex routines to avoid Win32 mutexes
and TryEnterCriticalSection;
procedure to fix Mingw32 thread-safety issues.
Franco Bez franco dot bez at gmx dot de
procedure to fix Mingw32 thread-safety issues.
Louis Thomas lthomas at arbitrade dot com
(with Alexander Terekhov) re-implemented and improved
condition variables.
David Korndk at research dot att dot com
Ported to UWIN.
Phil Frishie, Jr phil at hawksoft dot com
Bug fix.
Ralf Brese Ralf dot Brese at pdb4 dot siemens dot de
Bug fix.
prionx at juno dot com prionx at juno dot com
Bug fixes.
Max Woodbury mtew at cds dot duke dot edu
POSIX versioning conditionals;
reduced namespace pollution;
idea to separate routines to reduce statically
linked image sizes.
Rob Fanncranner at stonethree dot com
Bug fix.
Michael Johnson michaelj at maine dot rr dot com
Bug fix.
Nicolas Barryboozai at yahoo dot com
Bug fixes.
Piet van Bruggenpriet vb at newbridges dot nl
Bug fix.
Makoto Katoraven at oldskool dot jp
AMD64 port.
Panagiotis E. Hadjidoukas peh at hpclab dot ceid dot upatras dot gr
Contributed the QueueUserAPCEx package which
makes preemptive async cancelation possible.
Will Bryantwill dot bryant at ecosm dot com
Borland compiler patch and makefile.
Anuj Goyalanuj dot goyal at gmail dot com
Port to Digital Mars compiler.
Gottlob Frege gottlobfrege at gmail dot com
re-implemented pthread_once (version 2)
(pthread_once cancellation added by rpj).
Vladimir Kliatchkovladimir at kliatchko dot com
reimplemented pthread_once with the same form
as described by A.Terekhov (later version 2);
implementation of MCS (Mellor-Crummey/Scott) locks.
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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File: HashTables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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File: PSReadLine
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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.1179 spring-bean 5.1.3.RELEASE

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1.1180 perl-pod-simple 3.0.0

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=head1 NAME

Pod::Simple::XMLOutStream -- turn Pod into XML

=head1 SYNOPSIS

perl -MPod::Simple::XMLOutStream -e \
"exit Pod::Simple::XMLOutStream->filter(shift)->any_errata_seen" \ 
thingy.pod

=head1 DESCRIPTION

Pod::Simple::XMLOutStream is a subclass of L<Pod::Simple> that parses Pod and turns it into XML.

Pod::Simple::XMLOutStream inherits methods from L<Pod::Simple>.

=head1 SEE ALSO

L<Pod::Simple::DumpAsXML> is rather like this class; see its documentation for a discussion of the differences.

L<Pod::Simple>, L<Pod::Simple::DumpAsXML>, L<Pod::SAX>

L<Pod::Simple::Subclassing>

The older (and possibly obsolete) libraries L<Pod::PXML>, L<Pod::XML>

=head1 ABOUT EXTENDING POD

TODO: An example or two of =extend, then point to Pod::Simple::Subclassing
=head1 ASK ME!

If you actually want to use Pod as a format that you want to render to XML (particularly if to an XML instance with more elements than normal Pod has), please email me (C<sburke@cpan.org>) and I’ll probably have some recommendations.

For reasons of concision and energetic laziness, some methods and options in this module (and the dozen modules it depends on) are undocumented; but one of those undocumented bits might be just what you’re looking for.

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=head1 AUTHOR

Sean M. Burke C<sburke@cpan.org>

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1078070746_1597834570.74/0/pod-simple-3-01-zip/pod-simple-3.01/lib/Pod/Simple/XMLOutStream.pm
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# TODO: let it be an option whether a given subclass even wants little treelets?

__END__

=head1 NAME

Pod::Simple::LinkSection -- represent "section" attributes of L codes

=head1 SYNOPSIS
# a long story

=head1 DESCRIPTION

This class is not of interest to general users.

Pod::Simple uses this class for representing the value of the "section" attribute of "L" start-element events. Most applications can just use the normal stringification of objects of this class; they stringify to just the text content of the section, such as "foo" for C<< LZ<>Stuff/foo> >>, and "bar" for C<< LZ<>Stuff/bIZ<>ar>> >>.

However, anyone particularly interested in getting the full value of the treelet, can just traverse the content of the treelet @treelet_object. To wit:

```perl
% perl -MData::Dumper -e
"use base qw(Pod::Simple::Methody);
sub start_L { print Dumper($_[1]{'section'}) }
__PACKAGE__->new->parse_string_document("=head1 L<Foo/bI<ar>baz>>")
"
Output:
$VAR1 = bless( [
  ",
  {}
  'b',
  bless( [
    'T,
    {}
    'ar'
  ], 'Pod::Simple::LinkSection' ),
  'baz'
  ], 'Pod::Simple::LinkSection' );
```

But stringify it and you get just the text content:

```perl
% perl -MData::Dumper -e
"use base qw(Pod::Simple::Methody);
sub start_L { print Dumper( " . $_[1]{'section'} ) }
__PACKAGE__->new->parse_string_document("=head1 L<Foo/bI<ar>baz>>")
"
Output:
$VAR1 = 'barbaz';
```
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AUTHOR

Sean M. Burke <sburke@cpan.org>

NAME

Pod::Simple::RTF -- format Pod as RTF

SYNOPSIS

perl -MPod::Simple::RTF -e "exit Pod::Simple::RTF->filter(shift)->any_errata_seen" thingy.pod > thingy.rtf

DESCRIPTION

This class is a formatter that takes Pod and renders it as RTF, good for viewing/printing in MSWord, WordPad/write.exe, TextEdit, etc.

This is a subclass of Pod::Simple and inherits all its methods.

FORMAT CONTROL ATTRIBUTES

You can set these attributes on the parser object before you call parse_file (or a similar method) on it:
These methods set the size (in half-points, like 52 for 26-point) that these heading levels will appear as.

This method sets the size (in half-points, like 21 for 10.5-point) that codeblocks ("verbatim sections") will appear as.

This method sets the size (in half-points, like 15 for 7.5-point) that the header on each page will appear in. The header is usually just "I<modulename> p. I<pagenumber>".

This method sets the size (in half-points, like 26 for 13-point) that normal paragraphic text will appear in.

Set this value to true if you don't want the formatter to try putting a hidden code on all Perl symbols (as best as it can notice them) that labels them as being not in English, and so not worth spellchecking.

This sets the language code to tag this document as being in. By default, it is currently the value of the environment variable C<RTFDEFLANG>, or if that's not set, then the value 1033 (for US English).

Setting this appropriately is useful if you want to use the RTF to spellcheck, and/or if you want it to hyphenate right.

Here are some notable values:
If you are particularly interested in customizing this module's output even more, see the source and/or write to me.

=head1 SEE ALSO

L<Pod::Simple>, L<RTF::Writer>, L<RTF::Cookbook>, L<RTF::Document>, L<RTF::Generator>

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Sean M. Burke C<sburke@cpan.org>

=cut

Found in path(s):
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=head1 NAME

Pod::Simple::TextContent -- get the text content of Pod
TODO

perl -MPod::Simple::TextContent -e \\
"exit Pod::Simple::TextContent-&gt;filter(shift)-&gt;any_errata_seen" \\
thingy.pod

DESCRIPTION

This class is that parses Pod and dumps just the text content. It is mainly meant for use by the Pod::Simple test suite, but you may find some other use for it.

This is a subclass of L.Pod::Simple> and inherits all its methods.

SEE ALSO

L.Pod::Simple>, L.Pod::Simple::Text>, L.Pod::Spell>

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AUTHOR

Sean M. Burke <sburke@cpan.org>

NAME

Pod::Simple - framework for parsing Pod

SYNOPSIS
Todo

=head1 DESCRIPTION

Pod::Simple is a Perl library for parsing text in the Pod ("plain old documentation") markup language that is typically used for writing documentation for Perl and for Perl modules. The Pod format is explained in the L<perlpod> man page; the most common formatter is called "perldoc".

Pod formatters can use Pod::Simple to parse Pod documents into produce renderings of them in plain ASCII, in HTML, or in any number of other formats. Typically, such formatters will be subclasses of Pod::Simple, and so they will inherit its methods, like C<parse_file>.

If you're reading this document just because you have a Pod-processing subclass that you want to use, this document (plus the documentation for the subclass) is probably all you'll need to read.

If you're reading this document because you want to write a formatter subclass, continue reading this document, and then read L<Pod::Simple::Subclassing>, and then possibly even read L<perlpodspec> (some of which is for parser-writers, but much of which is notes to formatter-writers).

=head1 MAIN METHODS

=over

=item C<< $parser = I<SomeClass>-new(); >>

This returns a new parser object, where I<C<SomeClass>> is a subclass of Pod::Simple.

=item C<< $parser->output_fh( *OUT ); >>

This sets the filehandle that C<$parser>`s output will be written to. You can pass C<*STDOUT>, otherwise you should probably do something like this:

  my $outfile = "output.txt";
  open TXTOUT, ">$outfile" or die "Can't write to $outfile: $!";
  $parser->output_fh(*TXTOUT);


...before you call one of the \$parser->parse_... methods.

=item \$parser->output_string( \$somestring );

This sets the string that \$parser's output will be sent to, instead of any filehandle.

=item \$parser->parse_file( \$some_filename );
=item \$parser->parse_file( *INPUT_FH );

This reads the Pod content of the file (or filehandle) that you specify, and processes it with that \$parser object, according to however \$parser's class works, and according to whatever parser options you have set up for this \$parser object.

=item \$parser->parse_string_document( \$all_content );

This works just like \$parse_file except that it reads the Pod content not from a file, but from a string that you have already in memory.

=item \$parser->parse_lines( \@lines, undef );

This processes the lines in \@lines (where each list item must be a defined value, and must contain exactly one line of content -- so no items like "foo
bar" are allowed). The final undef is used to indicate the end of document being parsed.

The other \$parser->... methods are meant to be called only once per \$parser object; but \$parse_lines can be called as many times per \$parser object as you want, as long as the last call (and only the last call) ends with an undef value.

=item \$parser->content_seen

This returns true only if there has been any real content seen for this document.

=item I<SomeClass->filter( \$filename );
=item I<SomeClass->filter( *INPUT_FH );
=item I<SomeClass->filter( \$document_content );
This is a shortcut method for creating a new parser object, setting the output handle to STDOUT, and then processing the specified file (or filehandle, or in-memory document). This is handy for one-liners like this:

perl -MPod::Simple::Text -e "Pod::Simple::Text->filter('thingy.pod')"

=back

=head1 SECONDARY METHODS

Some of these methods might be of interest to general users, as well as of interest to formatter-writers.

Note that the general pattern here is that the accessor-methods read the attribute's value with C<< $value = $parser->I<attribute> >> and set the attribute's value with C<< $parser->I<attribute>(I<newvalue>) >>. For each accessor, I typically only mention one syntax or another, based on which I think you are actually most likely to use.

=over

=item C<< $parser->no_whining( I<SOMEVALUE> ) >>

If you set this attribute to a true value, you will suppress the parser's complaints about irregularities in the Pod coding. By default, this attribute's value is false, meaning that irregularities will be reported.

Note that turning this attribute to true won't suppress one or two kinds of complaints about rarely occurring unrecoverable errors.

=item C<< $parser->no_errata_section( I<SOMEVALUE> ) >>

If you set this attribute to a true value, you will stop the parser from generating a "POD ERRORS" section at the end of the document. By default, this attribute's value is false, meaning that an errata section will be generated, as necessary.

=item C<< $parser->complain_stderr( I<SOMEVALUE> ) >>

If you set this attribute to a true value, it will send reports of
parsing errors to STDERR. By default, this attribute's value is false, meaning that no output is sent to STDERR.

Note that errors can be noted in an errata section, or sent to STDERR, or both, or neither. So don't think that turning on C<complain_stderr> will turn off C<no_errata_section> or vice versa -- these are independent attributes.

=item C<< $parser->source_filename >>

This returns the filename that this parser object was set to read from.

=item C<< $parser->doc_has_started >>

This returns true if C<$parser> has read from a source, and has seen Pod content in it.

=item C<< $parser->source_dead >>

This returns true if C<$parser> has read from a source, and come to the end of that source.

=back

=head1 CAVEATS

This is just a beta release -- there are a good number of things still left to do. Notably, support for EBCDIC platforms is still half-done, an untested.

=head1 SEE ALSO

L<Pod::Simple::Subclassing>

L<perlpod|perlpod>

L<perlpodspec|perlpodspec>

L<Pod::Escapes|Pod::Escapes>

L<perldoc>
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AUTHOR

Sean M. Burke <sburke@cpan.org>

NAME

Pod::Simple::PullParserStartToken -- start-tokens from Pod::Simple::PullParser

SYNOPSIS

(See L<Pod::Simple::PullParser>)

DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser> object, you might get an object of this class.

This is a subclass of L<Pod::Simple::PullParserToken> and inherits all its methods, and adds these methods:

over

item $token->tagname

This returns the tagname for this start-token object.

For example, parsing a "=head1 ..." line will give you a start-token with the tagname of "head1", token(s) for its content, and then an end-token with the tagname of "head1".

item $token->tagname(I<somestring>)
This changes the tagname for this start-token object. You probably won't need to do this.

=item $token->tag(...)

A shortcut for $token->tagname(...)

=item $token->is_tag(I<somestring>) or $token->is_tagname(I<somestring>)

These are shortcuts for C<< $token->tag() eq I<somestring> >>

=item $token->attr(I<attrname>)

This returns the value of the I<attrname> attribute for this start-token object, or undef.

For example, parsing a LZ<> <Foo"Bar"> link will produce a start-token with a "to" attribute with the value "Foo", a "type" attribute with the value "pod", and a "section" attribute with the value "Bar".

=item $token->attr(I<attrname>, I<newvalue>)

This sets the I<attrname> attribute for this start-token object to I<newvalue>. You probably won't need to do this.

=item $token->attr_hash

This returns the hashref that is the attribute set for this start-token. This is useful if (for example) you want to ask what all the attributes are -- you can just do C<< keys %{$token->attr_hash} >>

=back

You're unlikely to ever need to construct an object of this class for yourself, but if you want to, call C<< Pod::Simple::PullParserStartToken->new( I<tagname>, I<attrhash> ) >>

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

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merchantability or fitness for a particular purpose.
=head1 AUTHOR
Sean M. Burke C<sburke@cpan.org>
=cut
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1078070746_1597834570.74/0/pod-simple-3-01-zip/pod-simple3.01/lib/Pod/Simple/PullParserStartToken.pm
No license file was found, but licenses were detected in source scan.
=head1 NAME
Pod::Simple::HTMLBatch - convert several Pod files to several HTML files
=head1 SYNOPSIS
perl -MPod::Simple::HTMLBatch -e 'Pod::Simple::HTMLBatch::go' in out

=head1 DESCRIPTION
This module is used for running batch-conversions of a lot of HTML
documents
This class is NOT a subclass of Pod::Simple::HTML
(nor of bad old Pod::Html) -- although it uses
Pod::Simple::HTML for doing the conversion of each document.
The normal use of this class is like so:
use Pod::Simple::HTMLBatch;
my $batchconv = Pod::Simple::HTMLBatch->new;
$batchconv->some_option( some_value );
$batchconv->some_other_option( some_other_value );
$batchconv->batch_convert( \@search_dirs, $output_dir );
=head2 FROM THE COMMAND LINE

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Note that this class also provides
(but does not export) the function Pod::Simple:HTMLBatch::go.
This is basically just a shortcut for C<<
Pod::Simple:HTMLBatch->batch_convert(@ARGV) >>.
It's meant to be handy for calling from the command line.

However, the shortcut requires that you specify exactly two command-line
arguments, C<indiurs> and C<oudir>.

Example:

% mkdir out_html
% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go @INC out_html
   (to convert the pod from Perl's @INC
    files under the directory ../htmlversion)

(Note that the command line there contains a literal atsign-I-N-C. This
is handled as a special case by batch_convert, in order to save you having
to enter the odd-looking "" as the first command-line parameter when you
mean "just use whatever's in @INC".)

Example:

% mkdir ../seekrut
% chmod og-rx ../seekrut
% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go . ../htmlversion
   (to convert the pod under the current dir into HTML
    files under the directory ../htmlversion)

Example:

% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go happydocs .
   (to convert all pod from happydocs into the current directory)

=head1 MAIN METHODS

=over

=item $batchconv = Pod::Simple::HTMLBatch->new;

This TODO

=item $batchconv->batch_convert( I<indiurs>, I<oudir> );

this TODO
These two values for I<indirs> specify that the normal Perl @INC
This specifies that the input directories are the items in
the arrayref C<\@dirs>.
This specifies that the director "somedir" is the input.
(This can be an absolute or relative path, it doesn't matter.)
A common value you might want would be just ",," for the current
directory:

$batchconv->batch_convert( ",," , ...);

This specifies that you want the dirs "somedir", "someother", and "also"
scanned, just as if you'd passed the arrayref
C<\{qw( somedir someother also)\}>
Instead, since the pathsep on MSWin is ";" instead of ":".
(And I<that> is because ";" often comes up in paths, like
C<"c:/perl/lib">.)

Exactly what separator character should be used, is gotten from
C<$Config::Config{\'path_sep\'}>, via the L<Config> module.

This specifies that you want the HTML output to go into the current
directory.

(Note that a missing or undefined value means a different thing in
the first slot than in the second. That's so that C<batch_convert()> with no arguments (or undef arguments) means "go from @INC, into
the current directory.)

$batchconv->batch_convert( ... , undef );
This specifies that you want the HTML output to go into the directory 'somedir'.
(This can be an absolute or relative path, it doesn't matter.)

Note that you can also call C<batch_convert> as a class method, like so:

Pod::Simple::HTMLBatch->batch_convert(...);

That is just short for this:

Pod::Simple::HTMLBatch->new->batch_convert(...);

That is, it runs a conversion with default options, for whatever input dirs and output dir you specify.

=head2 ACCESSOR METHODS

The following are all accessor methods -- that is, they don't do anything on their own, but just alter the contents of the conversion object, which comprises the options for this particular batch conversion.

We show the "put" form of the accessors below (i.e., the syntax you use for setting the accessor to a specific value). But you can also call each method with no parameters to get its current value. For example, C<< $self->contents_file() >> returns the current value of the contents_file attribute.

=item $batchconv->verbose( I<nonnegative_integer>);

This controls how verbose to be during batch conversion, as far as notes to STDOUT (or whatever is C<select>'d) about how the conversion is going. If 0, no progress information is printed. If 1 (the default value), some progress information is printed. Higher values print more information.

=item $batchconv->index( I<true-or-false>);

This controls whether or not each HTML page is liable to have a little table of contents at the top (which we call an "index" for historical
reasons). This is true by default.

=item $batchconv->contents_file( I<filename> );

If set, should be the name of a file (in the output directory) to write the HTML index to. The default value is "index.html". If you set this to a false value, no contents file will be written.

=item $batchconv->contents_page_start( I<HTML_string> );

This specifies what string should be put at the beginning of the contents page. The default is a string more or less like this:

<html>
<head><title>Perl Documentation</title></head>
<body class='contentspage'>
<h1>Perl Documentation</h1>
</body>
</html>

=item $batchconv->contents_page_end( I<HTML_string> );

This specifies what string should be put at the end of the contents page. The default is a string more or less like this:

<p class='contentsfooty'>Generated by
Pod::Simple::HTMLBatch v3.01 under Perl v5.008
At Fri May 14 22:26:42 2004 GMT,
which is Fri May 14 14:26:42 2004 local time.</p>

=item $batchconv->add_css( $url );

TODO

=item $batchconv->add_javascript( $url );

TODO

=item $batchconv->css_flurry( I<true-or-false> );

If true (the default value), we autogenerate some CSS files in the output directory, and set our HTML files to use those.

TODO: continue

=item $batchconv->javascript_flurry( I<true-or-false> );
If true (the default value), we autogenerate a JavaScript in the output directory, and set our HTML files to use it. Currently, the JavaScript is used only to get the browser to remember what stylesheet it prefers.

TODO: continue

=item $batchconv->no_contents_links( I<true-or-false> );

TODO

=item $batchconv->html_render_class( I<classname> );

This sets what class is used for rendering the files.
The default is "Pod::Simple::Search". If you set it to something else, it should probably be a subclass of Pod::Simple::Search, and you should C<require> or C<use> that class so that's it's loaded before Pod::Simple::HTMLBatch tries loading it.

=back

=head1 NOTES ON CUSTOMIZATION

TODO

call add_css($someurl) to add stylesheet as alternate
call add_css($someurl,1) to add as primary stylesheet

call add_javascript

subclass Pod::Simple::HTML and set $batchconv->html_render_class to that classname
and maybe override
$batchmode->batch_mode_page_object_init($self, $module, $infile, $outfile, $depth)
or maybe override
$batchconv->batch_mode_page_object_init($page, $module, $infile, $outfile, $depth)

=head1 ASK ME!

If you want to do some kind of big pod-to-HTML version with some particular kind of option that you don't see how to achieve using this module, email me (C<sburke@cpan.org>) and I'll probably have a good idea how to do it. For reasons of concision and energetic laziness, some methods and options in this module (and the dozen modules it depends on)
are undocumented; but one of those undocumented bits might be just what
you're looking for.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::HTMLBatch>, L<perlpod>, L<perlpodspec>

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=head1 AUTHOR

Sean M. Burke C<sburke@cpan.org>

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1078070746_1597834570.74/0/pod-simple-3-01-zip/pod-simple-3.01/lib/Pod/Simple/HTMLBatch.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::Debug -- put Pod::Simple into trace/debug mode

=head1 SYNOPSIS

use Pod::Simple::Debug (5);  # or some integer

Or:

my $debuglevel;
use Pod::Simple::Debug ($debuglevel, 0);
...some stuff that uses Pod::Simple to do stuff, but which
you don't want debug output from...
$debug_level = 4;
...some stuff that uses Pod::Simple to do stuff, but which
you DO want debug output from...

$debug_level = 0;

=head1 DESCRIPTION

This is an internal module for controlling the debug level (a.k.a. trace
level) of Pod::Simple. This is of interest only to Pod::Simple
developers.

=head1 CAVEATS

Note that you should load this module I<before> loading Pod::Simple (or
any Pod::Simple-based class). If you try loading Pod::Simple::Debug
after &Pod::Simple::DEBUG is already defined, Pod::Simple::Debug will
throw a fatal error to the effect that
"it's s too late to call Pod::Simple::Debug".

Note that the C<use Pod::Simple::Debug (\$x, I<somenum>)> mode will make
Pod::Simple (et al) run rather slower, since &Pod::Simple::DEBUG won't
be a constant sub anymore, and so Pod::Simple (et al) won't compile with
constant-folding.

=head1 GUTS

Doing this:

use Pod::Simple::Debug (5); # or some integer

is basically equivalent to:

BEGIN { sub Pod::Simple::DEBUG () { 5 } } # or some integer
use Pod::Simple ();;

And this:

use Pod::Simple::Debug (\$debug_level,0); # or some integer

is basically equivalent to this:

my $debug_level;
BEGIN { $debug_level = 0 }
BEGIN { sub Pod::Simple::DEBUG () { $debug_level }
use Pod::Simple ();;}
=head1 SEE ALSO

L<Pod::Simple>


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=head1 AUTHOR

Sean M. Burke C<sburke@cpan.org>

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1078070746_1597834570.74/0/pod-simple-3-01-zip/pod-simple-3.01/lib/Pod/Simple/Debug.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::PullParserEndToken -- end-tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

(See L<Pod::Simple::PullParser>)

=head1 DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser>, you might get an object of this class.

This is a subclass of L<Pod::Simple::PullParserToken> and inherits all its methods, and adds these methods:

=over
=item $token->tagname

This returns the tagname for this end-token object.
For example, parsing a "=head1 ..." line will give you
a start-token with the tagname of "head1", token(s) for its
content, and then an end-token with the tagname of "head1".

=item $token->tagname(I<somestring>)

This changes the tagname for this end-token object.
You probably won't need to do this.

=item $token->tag(...)

A shortcut for $token->tagname(...)

=item $token->is_tag(I<somestring>) or $token->is_tagname(I<somestring>)

These are shortcuts for C<< $token->tag() eq I<somestring> >>

=back

You're unlikely to ever need to construct an object of this class for
yourself, but if you want to, call
C<<
Pod::Simple::PullParserEndToken->new( I<tagname> )
>>

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

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=head1 AUTHOR

Sean M. Burke C<sburke@cpan.org>

=cut
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1078070746_1597834570.74/0/pod-simple-3.01-zip/pod-simple-3.01/lib/Pod/Simple/PullParserEndToken.pm

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

=head1 NAME

Pod::Simple::PullParser -- a pull-parser interface to parsing Pod

=head1 SYNOPSIS

my $parser = SomePodProcessor->new;
$parser->set_source( "whatever.pod" );
$parser->run;

Or:

my $parser = SomePodProcessor->new;
$parser->set_source( $some_filehandle_object );
$parser->run;

Or:

my $parser = SomePodProcessor->new;
$parser->set_source( $document_source );
$parser->run;

Or:

my $parser = SomePodProcessor->new;
$parser->set_source( \@document_lines );
$parser->run;

And elsewhere:

require 5;
package SomePodProcessor;
use strict;
use base qw(Pod::Simple::PullParser);

sub run {
  my $self = shift;
  Token:
    while(my $token = $self->get_token) {
      ...process each token...
    }
}
=head1 DESCRIPTION

This class is for using Pod::Simple to build a Pod processor -- but one that uses an interface based on a stream of token objects, instead of based on events.

This is a subclass of L<Pod::Simple> and inherits all its methods.

A subclass of Pod::Simple::PullParser should define a C<run> method that calls C<< $token = $parser->get_token >> to pull tokens.

See the source for Pod::Simple::RTF for an example of a formatter that uses Pod::Simple::PullParser.

=head1 METHODS

=over

=item my $token = $parser->get_token

This returns the next token object (which will be of a subclass of L<Pod::Simple::PullParserToken>), or undef if the parser-stream has hit the end of the document.

=item $parser->unget_token( $token )

=item $parser->unget_token( $token1, $token2, ... )

This restores the token object(s) to the front of the parser stream.

=back

The source has to be set before you can parse anything. The lowest-level way is to call C<set_source>:

=over

=item $parser->set_source( $filename )

=item $parser->set_source( $filehandle_object )

=item $parser->set_source( $document_source )

=item $parser->set_source( $document_lines )

=back
Or you can call these methods, which Pod::Simple::PullParser has defined to work just like Pod::Simple's same-named methods:

=over

=item $parser->parse_file(...)

=item $parser->parse_string_document(...)

=item $parser->filter(...)

=item $parser->parse_from_file(...)

=back

For those to work, the Pod-processing subclass of Pod::Simple::PullParser has to have defined a $parser->run method -- so it is advised that all Pod::Simple::PullParser subclasses do so. See the Synopsis above, or the source for Pod::Simple::RTF.

Authors of formatter subclasses might find these methods useful to call on a parser object that you haven't started pulling tokens from yet:

=over

=item my $title_string = $parser->get_title

This tries to get the title string out of $parser, by getting some tokens, and scanning them for the title, and then ungetting them so that you can process the token-stream from the beginning.

For example, suppose you have a document that starts out:

=head1 NAME

Hoo::Boy::Wowza -- Stuff B<wow> yeah!

$parser->get_title on that document will return "Hoo::Boy::Wowza -- Stuff wow yeah!".

In cases where get_title can't find the title, it will return empty-string (""").

=item my $title_string = $parser->get_short_title

This is just like get_title, except that it returns just the modulename, if the title seems to be of the form "SomeModuleName -- description".
For example, suppose you have a document that starts out:

=head1 NAME

Hoo::Boy::Wowza -- Stuff <wow> yeah!

then $parser->get_short_title on that document will return "Hoo::Boy::Wowza".

But if the document starts out:

=head1 NAME

Hooboy, stuff <wow> yeah!

then $parser->get_short_title on that document will return "Hooboy, stuff wow yeah!".

If the title can't be found, then get_short_title returns empty-string (" ").

=item $author_name = $parser->get_author

This works like get_title except that it returns the contents of the
"=head1 AUTHOR\n\nParagraph...\n" section, assuming that that section isn't terribly long.

(This method tolerates "AUTHORS" instead of "AUTHOR" too.)

=item $description_name = $parser->get_description

This works like get_title except that it returns the contents of the
"=head1 PARAGRAPH\n\nParagraph...\n" section, assuming that that section isn't terribly long.

=item $version_block = $parser->get_version

This works like get_title except that it returns the contents of
the "=head1 VERSION\n\n[BIG BLOCK]\n" block. Note that this does NOT return the module's C<$VERSION>!!

=back

=head1 NOTE

You don't actually have to define a C<run> method. If you're
writing a Pod-formatter class, you should define a C<run> just so that users can call C<parse_file> etc, but you don't I<have> to.

And if you're not writing a formatter class, but are instead just writing a program that does something simple with a Pod::PullParser object (and not an object of a subclass), then there's no reason to bother subclassing to add a C<run> method.

=head1 SEE ALSO

L<Pod::Simple>

L<Pod::Simple::PullParserToken> -- and its subclasses
L<Pod::Simple::PullParserStartToken>,
L<Pod::Simple::PullParserTextToken>, and
L<Pod::Simple::PullParserEndToken>.

L<HTML::TokeParser>, which inspired this.

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=head1 AUTHOR

Sean M. Burke C<sburke@cpan.org>

=cut

JUNK:

sub _old_get_title {  # some witchery in here
  my $self = $_[0];
  my $title;
  my @to_unget;

  while(1) {
    push @to_unget, $self->get_token;
    unless(defined $to_unget[-1]) { # whoops, short doc!
pop @to_unget;
last;
}
DEBUG and print "-Got token ", $to_unget[-1]->dump, "\n";
(DEBUG and print "Too much in the buffer.\n"),
last if @to_unget > 25; # sanity
my $pattern = '';
if( #$to_unget[-1]->type eq 'end'
#and $to_unget[-1]->tagname eq 'Para'
#and
($pattern = join('',
map {;
($_->type eq 'start') ? ("<" . $_->tagname .">")
: ($_->type eq 'end' ) ? ("</". $_->tagname .">")
: ($_->type eq 'text' ) ? ($_->text =~ m<^([A-Z]+)$>s ? $1 : 'X')
: "BLORP"
} @to_unget
)) =~ m{<head1>NAME</head1><Para>(X|</?[BCIFLS]>)+</Para>$}s
){
# Whee, it fits the pattern
DEBUG and print "Seems to match =head1 NAME pattern.\n";
$title = '';
foreach my $t (reverse @to_unget) {
last if $t->type eq 'start' and $t->tagname eq 'Para';
$title = $t->text . $title if $t->type eq 'text';
}
undef $title if $title =~ m<^\s*$>; # make sure it's contentful!
last;
} elsif ($pattern =~ m{<head(\d)>(.+)</head\d>$}
and !( $1 eq '1' and $2 eq 'NAME' )
){
# Well, it fits a fallback pattern
DEBUG and print "Seems to match NAMEless pattern.\n";
$title = '';
foreach my $t (reverse @to_unget) {
last if $t->type eq 'start' and $t->tagname =~ m/^head\d$/s;
$title = $t->text . $title if $t->type eq 'text';
}
undef $title if $title =~ m<^\s*$>; # make sure it's contentful!
last;
} else {
DEBUG and $pattern and print "Leading pattern: $pattern\n";
}

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# Put it all back:
$self->unget_token(@to_unget);

if(DEBUG) {
    if(defined $title) { print "Returning title <$title>\n" } 
    else { print "Returning title <>\n" } 
}

return " unless defined $title;
return $title;
}

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1078070746_1597834570.74/0/pod-simple-3-01-zip/pod-simple-3.01/lib/Pod/Simple/PullParser.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME
Pod::Simple::DumpAsXML -- turn Pod into XML

=head1 SYNOPSIS
perl -MPod::Simple::DumpAsXML -e \
"exit Pod::Simple::DumpAsXML->filter(shift)->any_errata_seen" \
thingy.pod

=head1 DESCRIPTION
Pod::Simple::DumpAsXML is a subclass of L<Pod::Simple> that parses Pod
and turns it into indented and wrapped XML. This class is of
interest to people writing Pod formatters based on Pod::Simple.

Pod::Simple::DumpAsXML inherits methods from
L<Pod::Simple>.

=head1 SEE ALSO
L<Pod::Simple::XMLOutStream> is rather like this class.
Pod::Simple::XMLOutStream's output is space-padded in a way
that's better for sending to an XML processor (that is, it has
no ignoreable whitespace). But
Pod::Simple::DumpAsXML's output is much more human-readable, being
(more-or-less) one token per line, with line-wrapping.
L<Pod::Simple::DumpAsText> is rather like this class, except that it doesn't dump with XML syntax. Try them and see which one you like best!

L<Pod::Simple>, L<Pod::Simple::DumpAsXML>

The older libraries L<Pod::PXML>, L<Pod::XML>, L<Pod::SAX>

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=head1 AUTHOR

Sean M. Burke C<sburke@cpan.org>

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1078070746_1597834570.74/0/pod-simple-3-01-zip/pod-simple-3.01/lib/Pod/Simple/DumpAsXML.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::PullParserTextToken -- text-tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

(See L<Pod::Simple::PullParser>)

=head1 DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser>, you might get an object of this class.

This is a subclass of L<Pod::Simple::PullParserToken> and inherits all its methods, and adds these methods:

=over
This returns the text that this token holds. For example, parsing
CZ<<<foo> will return a C start-token, a text-token, and a C end-token. And
if you want to get the "foo" out of the text-token, call C<< $token->text >>

This changes the string that this token holds. You probably won't need
to do this.

This returns a scalar reference to the string that this token holds.
This can be useful if you don't want to memory-copy the potentially
large text value (well, as large as a paragraph or a verbatim block)
as calling $token->text would do.

Or, if you want to alter the value, you can even do things like this:

for ( ${ $token->text_r } ) { # Aliases it with $_ !!
  s/ The / the /g; # just for example
  if( 'A' eq chr(65) ) { # (if in an ASCII world)
    tr/\xA0//;
    tr/\xAD//d;
  }
  ...or however you want to alter the value...
}

You're unlikely to ever need to construct an object of this class for
yourself, but if you want to, call
C<< Pod::Simple::PullParserTextToken->new( I<text> ) >>

=head1 SEE ALSO
L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

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=head1 AUTHOR

Sean M. Burke C<sburke@cpan.org>

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1078070746_1597834570.74/0/pod-simple-3-01-zip/pod-simple-3.01/lib/Pod/Simple/PullParserTextToken.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::DumpAsText -- dump Pod-parsing events as text

=head1 SYNOPSIS

perl -MPod::Simple::DumpAsText -e \n"exit Pod::Simple::DumpAsText->filter(shift)->any_errata_seen" \n thingy.pod

=head1 DESCRIPTION

This class is for dumping, as text, the events gotten from parsing a Pod document. This class is of interest to people writing Pod formatters based on Pod::Simple. It is useful for seeing exactly what events you get out of some Pod that you feed in.

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 SEE ALSO

L<Pod::Simple::DumpAsXML>  
L<Pod::Simple>

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=head1 AUTHOR

Sean M. Burke C<sburke@cpan.org>

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1078070746_1597834570.74/0/pod-simple-3-01-zip/pod-simple-3.01/lib/Pod/Simple/DumpAsText.pm

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

=head1 NAME

Pod::Simple::Text -- format Pod as plaintext

=head1 SYNOPSIS

perl -MPod::Simple::Text -e \
"exit Pod::Simple::Text->filter(shift)->any_errata_seen" \ 
thingy.pod

=head1 DESCRIPTION

This class is a formatter that takes Pod and renders it as wrapped plaintext.

Its wrapping is done by L<Text::Wrap>, so you can change C<$Text::Wrap::columns> as you like.

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::TextContent>, L<Pod::Text>

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=head1 AUTHOR

Sean M. Burke C<sburke@cpan.org>

=cut

Found in path(s):
  * /opt/ws_local/PERMITS_SQL/1078070746_1597834570.74/0/pod-simple-3-01-zip/pod-simple-3.01/lib/Pod/Simple/Text.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::Methody -- turn Pod::Simple events into method calls

=head1 SYNOPSIS

require 5;
use strict;
package SomePodFormatter;
use base qw(Pod::Simple::Methody);

sub handle_text {
    my($self, $text) = @_;  
    ...
}

sub start_head1 {
    my($self, $attrs) = @_;  
    ...
}

sub end_head1 {
    my($self) = @_;  
    ...
}

...and start_/end_ methods for whatever other events you want to catch.

=head1 DESCRIPTION

This class is of interest to people writing Pod formatters based on Pod::Simple.
This class (which is very small -- read the source) overrides Pod::Simple's _handle_element_start, _handle_text, and _handle_element_end methods so that parser events are turned into method calls. (Otherwise, this is a subclass of L.Pod::Simple and inherits all its methods.)

You can use this class as the base class for a Pod formatter/processor.

=head1 METHOD CALLING

When Pod::Simple sees a "=head1 Hi there", for example, it basically does this:

   $parser->_handle_element_start( "head1", \%attributes );
   $parser->_handle_text( "Hi there" );
   $parser->_handle_element_end( "head1" );

But if you subclass Pod::Simple::Methody, it will instead do this when it sees a "=head1 Hi there":

   $parser->start_head1( \%attributes ) if $parser->can('start_head1');
   $parser->handle_text( "Hi there" ) if $parser->can('handle_text');
   $parser->end_head1()                 if $parser->can('end_head1');

If Pod::Simple sends an event where the element name has a dash, period, or colon, the corresponding method name will have a underscore in its place. For example, "foo.bar:baz" becomes start_foo_bar_baz and end_foo_bar_baz.

See the source for Pod::Simple::Text for an example of using this class.

=head1 SEE ALSO

L.Pod::Simple, L.Pod::Simple::Subclassing

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=head1 AUTHOR
sub dump { ']' . _esc( @{ $_[0] } ) . ']' }

__END__

=head1 NAME

Pod::Simple::PullParserToken -- tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

Given a $parser that's an object of class Pod::Simple::PullParser (or a subclass)...
=head1 DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser>, you should get an object of a subclass of Pod::Simple::PullParserToken.

Subclasses will add methods, and will also inherit these methods:

=over

=item $token->type

This returns the type of the token. This will be either the string "start", the string "text", or the string "end".

Once you know what the type of an object is, you then know what subclass it belongs to, and therefore what methods it supports.

Yes, you could probably do the same thing with code like $token->isa('Pod::Simple::PullParserEndToken'), but that's not so pretty as using just $token->type, or even the following shortcuts:

=item $token->is_start

This is a shortcut for C<< $token->type() eq "start" >>

=item $token->is_text

This is a shortcut for C<< $token->type() eq "text" >>

=item $token->is_end

This is a shortcut for C<< $token->type() eq "end" >>

=item $token->dump

This returns a handy stringified value of this object. This is useful for debugging, as in:

    while(my $token = $parser->get_token) {
        $DEBUG and print "Token: ", $token->dump, "\n";
        ...
    }

My subclasses:
L</Pod::Simple::PullParserStartToken>,
L</Pod::Simple::PullParserTextToken>, and
L</Pod::Simple::PullParserEndToken>.

L</Pod::Simple::PullParser> and L</Pod::Simple>

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NAME

perfaq3 - Programming Tools ($Revision: 1.38 $, $Date: 1999/05/23 16:08:30 $)

DESCRIPTION

This section of the FAQ answers questions related to programmer tools and programming support.

How do I do (anything)?

Have you looked at CPAN (see perfaq2)? The chances are that someone has already written a module that can solve
your problem. Have you read the appropriate man pages? Here's a brief index:

- Basics: perldata, perlvar, perlsyn, perlop, perlsub
- Execution: perlrun, perldebug
- Functions: perlfunc
- Objects: perlref, perlmod, perlobj, perlite
- Data Structures: perlref, perllocl, perldsc
- Modules: perlmod, perlmodlib, perlsub
- Regexes: perlre, perlfunc, perlop, perllocale
- Moving to perl5: perltrap, perl
Linking w/C perlxstut, perlxs, perlcalls, perlgluts, perllembed Various http://www.perl.com/CPAN/doc/FMTEYEWTK/index.html (not a man-page but still useful)

A crude table of contents for the Perl man page set is found in perltoc.

How can I use Perl interactively?
The typical approach uses the Perl debugger, described in the perldebug(1) man page, on an ``empty'' program, like this:

perl -de 42

Now just type in any legal Perl code, and it will be immediately evaluated. You can also examine the symbol table, get stack backtraces, check variable values, set breakpoints, and other operations typically found in symbolic debuggers.

Is there a Perl shell?
In general, no. The Shell.pm module (distributed with Perl) makes Perl try commands which aren't part of the Perl language as shell commands. perlsh from the source distribution is simplistic and uninteresting, but may still be what you want.

How do I debug my Perl programs?
Have you tried use warnings or used -w? They enable warnings to detect dubious practices.
Have you tried use strict? It prevents you from using symbolic references, makes you predeclare any subroutines that you call as bare words, and (probably most importantly) forces you to predeclare your variables with my, our, or use vars.

Did you check the return values of each and every system call? The operating system (and thus Perl) tells you whether they worked, and if not why.

open(FH, "> /etc/cantwrite")
or die "Couldn't write to /etc/cantwrite: $!
"

Did you read perltrap? It's full of gotchas for old and new Perl programmers and even has sections for those of you who are upgrading from languages like awk and C.

Have you tried the Perl debugger, described in perldgieug? You can step through your program and see what it's doing and thus work out why what it's doing isn't what it should be doing.

How do I profile my Perl programs?
You should get the Devel::DProf module from the standard distribution (or separately on CPAN) and also use Benchmark.pm from the standard distribution. The Benchmark module lets you time specific portions of your code, while Devel::DProf gives detailed breakdowns of where your code spends its time.

Here's a sample use of Benchmark:

use Benchmark;
@junk = `cat /etc/motd`;
$count = 10_000;
timethese($count, {
    'map' => sub { my @a = @junk;
        map { s/a/b/ } @a;
        return @a
    },
    'for' => sub { my @a = @junk;
        local $_; 
        for (@a) { s/a/b/ }; 
        return @a 
    });

This is what it prints (on one machine--your results will be dependent on your hardware, operating system, and the load on your machine):
Benchmark: timing 10000 iterations of for, map...
  for: 4 secs (3.97 usr 0.01 sys = 3.98 cpu)
  map: 6 secs (4.97 usr 0.00 sys = 4.97 cpu)

Be aware that a good benchmark is very hard to write. It only tests the data you give it and proves little about the differing complexities of contrasting algorithms.

How do I cross-reference my Perl programs?

The B::Xref module, shipped with the new, alpha-release Perl compiler (not the general distribution prior to the 5.005 release), can be used to generate cross-reference reports for Perl programs.

  perl -MO=Xref[OPTIONS] scriptname.plx

Is there a pretty-printer (formatter) for Perl?

There is no program that will reformat Perl as much as indent(1) does for C. The complex feedback between the scanner and the parser (this feedback is what confuses the vgrind and emacs programs) makes it challenging at best to write a stand-alone Perl parser.

Of course, if you simply follow the guidelines in perlstyle, you shouldn't need to reformat. The habit of formatting your code as you write it will help prevent bugs. Your editor can and should help you with this. The perl-mode or newer cperl-mode for emacs can provide remarkable amounts of help with most (but not all) code, and even less programmable editors can provide significant assistance. Tom swears by the following settings in vi and its clones:

set ai sw=4
  map! ^O {^M}^[O^T

Now put that in your .exrc file (replacing the caret characters with control characters) and away you go. In insert mode, ^T is for indenting, ^D is for undenting, and ^O is for blockdenting--as it were. If you haven't used the last one, you're missing a lot. A more complete example, with comments, can be found at http://www.perl.com/CPAN-local/authors/id/TOMC/scripts/toms.exrc.gz

If you are used to using the vgrind program for printing out nice code to a laser printer, you can take a stab at this using http://www.perl.com/CPAN/doc/misc/tips/working.vgrind.entry, but the results are not particularly satisfying for sophisticated code.

The a2ps at http://www.infres.enst.fr/%7Edemaille/a2ps/ does lots of things related to generating nicely printed output of documents.

Is there a ctags for Perl?

There's a simple one at http://www.perl.com/CPAN/authors/id/TOMC/scripts/ptags.gz which may do the trick. And if not, it's easy to hack into what you want.

Is there an IDE or Windows Perl Editor?

Perl programs are just plain text, so any editor will do.

If you're on Unix, you already have an IDE--Unix itself. The UNIX philosophy is the philosophy of several small tools that each do one thing and do it well. It's like a carpenter's toolbox.

If you want a Windows IDE, check the following:

CodeMagicCD
http://www.codemagiccd.com/

Komodo
ActiveState's cross-platform, multi-language IDE has Perl support, including a regular expression debugger and remote debugging (http://www.ActiveState.com/Products/Komodo/index.html). (Visual Perl, a Visual Studio.NET plug-in is currently (early 2001) in beta (http://www.ActiveState.com/Products/VisualPerl/index.html)).

The Object System
(http://www.castlelink.co.uk/object_system/) is a Perl web applications development IDE.

PerlBuilder
(http://www.solutionsoft.com/perl.htm) is an integrated development environment for Windows that supports Perl development.

Perl code magic
visiPerl+
http://helpconsulting.net/visiperl/, from Help Consulting.
For editors: if you’re on Unix you probably have vi or a vi clone already, and possibly an emacs too, so you may not need to download anything. In any emacs the cperl-mode (M-x cperl-mode) gives you perhaps the best available Perl editing mode in any editor.
For Windows editors: you can download an Emacs
GNU Emacs
http://www.gnu.org/software/emacs/windows/ntemacs.html
MicroEMACS
http://members.nbci.com/uemacs/
XEmacs
http://www.xemacs.org/Download/index.html
or a vi clone such as
Elvis
Vile
http://vile.cx/
Vim
http://www.vim.org/
win32: http://www.cs.vu.nl/~7Etmgil/vi.html
nvi (http://www.bostic.com/vi/, available from CPAN in src/misc/) is yet another vi clone, unfortunately not available for Windows, but in UNIX platforms you might be interested in trying it out, firstly because strictly speaking it is not a vi clone, it is the real vi, or the new incarnation of it, and secondly because you can embed Perl inside it to use Perl as the scripting language. nvi is not alone in this, though: at least also vim and vile offer an embedded Perl.
The following are Win32 multilanguage editor/IDESs that support Perl:
Codewright
http://www.starbase.com/
MultiEdit
SlickEdit
http://www.slickedit.com/
There is also a toyedit Text widget based editor written in Perl that is distributed with the Tk module on CPAN. The ptkdb (http://world.std.com/~aep/ptkdb/) is a Perl/tk based debugger that acts as a development environment of sorts. Perl Composer (http://perlcomposer.sourceforge.net/vperl.html) is an IDE for Perl/Tk GUI creation.
In addition to an editor/IDE you might be interested in a more powerful shell environment for Win32. Your options include
Bash
from the Cygwin package (http://sources.redhat.com/cygwin/)
Ksh
from the MKS Toolkit (http://www.mks.com/), or the Bourne shell of the U/WIN environment (http://www.research.att.com/sw/tools/uwin/)
Tcsh
Zsh
ftp://ftp.blarg.net/users/amol/zsh/, see also http://www.zsh.org/
MKS and U/WIN are commercial (U/WIN is free for educational and research purposes), Cygwin is covered by the GNU Public License (but that shouldn't matter for Perl use). The Cygwin, MKS, and U/WIN all contain (in addition to the shells) a comprehensive set of standard UNIX toolkit utilities.

If you're transferring text files between Unix and Windows using FTP be sure to transfer them in ASCII mode so the ends of lines are appropriately converted.

On Mac OS the MacPerl Application comes with a simple 32k text editor that behaves like a rudimentary IDE. In contrast to the MacPerl Application the MPW Perl tool can make use of the MPW Shell itself as an editor (with no 32k limit).

BBEdit and BBEdit Lite

are text editors for Mac OS that have a Perl sensitivity mode (http://web.barebones.com/).

Alpha

is an editor, written and extensible in Tcl, that nonetheless has built in support for several popular markup and programming languages including Perl and HTML (http://alpha.olm.net/).

Pepper and Pe are programming language sensitive text editors for Mac OS X and BeOS respectively (http://www.hekkelman.com/+).

Where can I get Perl macros for vi?

For a complete version of Tom Christiansen's vi configuration file, see http://www.perl.com/CPAN/authors/Tom_Christiansen/scripts/toms.exe.rc.gz, the standard benchmark file for vi emulators. The file runs best with nvi, the current version of vi out of Berkeley, which incidentally can be built with an embedded Perl interpreter--see http://www.perl.com/CPAN/src/misc.

Where can I get perl-mode for emacs?

Since Emacs version 19 patchlevel 22 or so, there have been both a perl-mode.el and support for the Perl debugger built in. These should come with the standard Emacs 19 distribution.

In the Perl source directory, you'll find a directory called "emacs", which contains a cperl-mode that color-codes keywords, provides context-sensitive help, and other nifty things.

Note that the perl-mode of emacs will have fits with "main'foo" (single quote), and mess up the indentation and highlighting. You are probably using "main::foo" in new Perl code anyway, so this shouldn't be an issue.

How can I use curses with Perl?

The Curses module from CPAN provides a dynamically loadable object module interface to a curses library. A small demo can be found at the directory http://www.perl.com/CPAN/authors/Tom_Christiansen/scripts/rep; this program repeats a command and updates the screen as needed, rendering rep ps axu similar to top.

How can I use X or Tk with Perl?

Tk is a completely Perl-based, object-oriented interface to the Tk toolkit that doesn't force you to use Tcl just to get at Tk. Sx is an interface to the Athena Widget set. Both are available from CPAN. See the directory http://www.perl.com/CPAN/modules/by-category/08_User_Interfaces/


How can I generate simple menus without using CGI or Tk?

The http://www.perl.com/CPAN/authors/id/SKUNZ/perlmenu.v4.0.tar.gz module, which is curses-based, can help with this.

What is undump?

See the next question on "How can I make my Perl program run faster?"

How can I make my Perl program run faster?

The best way to do this is to come up with a better algorithm. This can often make a dramatic difference. Jon Bentley's book "Programming Pearls" (that's not a misspelling!) has some good tips on optimization, too. Advice on benchmarking boils down to: benchmark and profile to make sure you're optimizing the right part, look for better algorithms instead of microtuning your code, and when all else fails consider just buying faster hardware.
A different approach is to autoload seldom-used Perl code. See the AutoSplit and AutoLoader modules in the standard distribution for that. Or you could locate the bottleneck and think about writing just that part in C, the way we used to take bottlenecks in C code and write them in assembler. Similar to rewriting in C, modules that have critical sections can be written in C (for instance, the PDL module from CPAN).

In some cases, it may be worth it to use the backend compiler to produce byte code (saving compilation time) or compile into C, which will certainly save compilation time and sometimes a small amount (but not much) execution time. See the question about compiling your Perl programs for more on the compiler--the wins aren't as obvious as you'd hope.

If you're currently linking your perl executable to a shared libc.so, you can often gain a 10-25% performance benefit by rebuilding it to link with a static libc.a instead. This will make a bigger perl executable, but your Perl programs (and programmers) may thank you for it. See the INSTALL file in the source distribution for more information.

Unsubstantiated reports allege that Perl interpreters that use sfio outperform those that don't (for I/O intensive applications). To try this, see the INSTALL file in the source distribution, especially the "Selecting File I/O mechanisms" section.

The undump program was an old attempt to speed up your Perl program by storing the already-compiled form to disk. This is no longer a viable option, as it only worked on a few architectures, and wasn't a good solution anyway.

How can I make my Perl program take less memory?

When it comes to time-space tradeoffs, Perl nearly always prefers to throw memory at a problem. Scalars in Perl use more memory than strings in C, arrays take more than that, and hashes use even more. While there's still a lot to be done, recent releases have been addressing these issues. For example, as of 5.004, duplicate hash keys are shared amongst all hashes using them, so require no reallocation.

In some cases, using substr() or vec() to simulate arrays can be highly beneficial. For example, an array of a thousand booleans will take at least 20,000 bytes of space, but it can be turned into one 125-byte bit vector--a considerable memory savings. The standard Tie::SubstrHash module can also help for certain types of data structure. If you're working with specialist data structures (matrices, for instance) modules that implement these in C may use less memory than equivalent Perl modules.

Another thing to try is learning whether your Perl was compiled with the system malloc or with Perl's built-in malloc. Whichever one it is, try using the other one and see whether this makes a difference. Information about malloc is in the INSTALL file in the source distribution. You can find out whether you are using perl's malloc by typing perl -V:usemymalloc.

Is it unsafe to return a pointer to local data?

No, Perl's garbage collection system takes care of this.

```perl
sub makeone {
    my @a = ( 1 .. 10 );
    return \@a;
}

for $i ( 1 .. 10 ) {
    push @many, makeone();
}

print $many[4][5], "\n";
print "@many\n";
```

How can I free an array or hash so my program shrinks?

You can't. On most operating systems, memory allocated to a program can never be returned to the system. That's why long-running programs sometimes re-exect themselves. Some operating systems (notably, FreeBSD and Linux) allegedly reclaim large chunks of memory that is no longer used, but it doesn't appear to happen with Perl (yet). The Mac appears to be the only platform that will reliably (albeit, slowly) return memory to the OS.

We've had reports that on Linux (Redhat 5.1) on Intel, undef $scalar will return memory to the system, while on Solaris 2.6 it won't. In general, try it yourself and see.
However, judicious use of my() on your variables will help make sure that they go out of scope so that Perl can free up that space for use in other parts of your program. A global variable, of course, never goes out of scope, so you can't get its space automatically reclaimed, although undef()ing and/or delete()ing it will achieve the same effect. In general, memory allocation and de-allocation isn't something you can or should be worrying about much in Perl, but even this capability (preallocation of data types) is in the works.

How can I make my CGI script more efficient?
Beyond the normal measures described to make general Perl programs faster or smaller, a CGI program has additional issues. It may be run several times per second. Given that each time it runs it will need to be re-compiled and will often allocate a megabyte or more of system memory, this can be a killer. Compiling into C isn't going to help you because the process start-up overhead is where the bottleneck is.

There are two popular ways to avoid this overhead. One solution involves running the Apache HTTP server (available from http://www.apache.org/) with either of the mod_perl or mod_fastcgi plugin modules. With mod_perl and the Apache::Registry module (distributed with mod_perl), httpd will run with an embedded Perl interpreter which pre-compiles your script and then executes it within the same address space without forking. The Apache extension also gives Perl access to the internal server API, so modules written in Perl can do just about anything a module written in C can. For more on mod_perl, see http://perl.apache.org/

With the FCGI module (from CPAN) and the mod_fastcgi module (available from http://www.fastcgi.com/) each of your Perl programs becomes a permanent CGI daemon process.
Both of these solutions can have far-reaching effects on your system and on the way you write your CGI programs, so investigate them with care.

See http://www.perl.com/CPAN/modules/by-category/15_World_Wide_Web_HTML_HTTP/cgi/.

A non-free, commercial product, "The Velocity Engine for Perl", (http://www.binevolve.com/ or http://www.binevolve.com/velocigen/) might also be worth looking at. It will allow you to increase the performance of your Perl programs, running programs up to 25 times faster than normal CGI Perl when running in persistent Perl mode or 4 to 5 times faster without any modification to your existing CGI programs. Fully functional evaluation copies are available from the web site.

How can I hide the source for my Perl program? Delete it. :-) Seriously, there are a number of (mostly unsatisfactory) solutions with varying levels of "security". First of all, however, you can't take away read permission, because the source code has to be readable in order to be compiled and interpreted. (That doesn't mean that a CGI script's source is readable by people on the web, though--only by people with access to the filesystem.) So you have to leave the permissions at the socially friendly 0755 level.

Some people regard this as a security problem. If your program does insecure things and relies on people not knowing how to exploit those insecurities, it is not secure. It is often possible for someone to determine the insecure things and exploit them without viewing the source. Security through obscurity, the name for hiding your bugs instead of fixing them, is little security indeed.

You can try using encryption via source filters (Filter::* from CPAN), but any decent programmer will be able to decrypt it. You can try using the byte code compiler and interpreter described below, but the curious might still be able to de-compile it. You can try using the native-code compiler described below, but crackers might be able to disassemble it. These pose varying degrees of difficulty to people wanting to get at your code, but none can definitively conceal it (true of every language, not just Perl).

If you're concerned about people profiting from your code, then the bottom line is that nothing but a restrictive license will give you legal security. License your software and pepper it with threatening statements like "This is unpublished proprietary software of XYZ Corp. Your access to it does not give you permission to use it blah blah blah." We are not lawyers, of course, so you should see a lawyer if you want to be sure your license's wording will stand up in court.

How can I compile my Perl program into byte code or C?
Malcolm Beattie has written a multifunction backend compiler, available from CPAN, that can do both these things.
It is included in the perl5.005 release, but is still considered experimental. This means it's fun to play with if you're a programmer but not really for people looking for turn-key solutions. Merely compiling into C does not in and of itself guarantee that your code will run very much faster. That's because except for lucky cases where a lot of native type inferencing is possible, the normal Perl run-time system is still present and so your program will take just as long to run and be just as big. Most programs save little more than compilation time, leaving execution no more than 10-30% faster. A few rare programs actually benefit significantly (even running several times faster), but this takes some tweaking of your code.

You'll probably be astonished to learn that the current version of the compiler generates a compiled form of your script whose executable is just as big as the original perl executable, and then some. That's because as currently written, all programs are prepared for a full eval() statement. You can tremendously reduce this cost by building a shared libperl.so library and linking against that. See the INSTALL podfile in the Perl source distribution for details. If you link your main perl binary with this, it will make it minuscule. For example, on one author's system, /usr/bin/perl is only 11k in size!

In general, the compiler will do nothing to make a Perl program smaller, faster, more portable, or more secure. In fact, it can make your situation worse. The executable will be bigger, your VM system may take longer to load the whole thing, the binary is fragile and hard to fix, and compilation never stopped software piracy in the form of crackers, viruses, or bootleggers. The real advantage of the compiler is merely packaging, and once you see the size of what it makes (well, unless you use a shared libperl.so), you'll probably want a complete Perl install anyway.

How can I compile Perl into Java?

You can also integrate Java and Perl with the Perl Resource Kit from O'Reilly and Associates. See http://www.oreilly.com/catalog/prkunix/.

Perl 5.6 comes with Java Perl Lingo, or JPL. JPL, still in development, allows Perl code to be called from Java. See jpl/README in the Perl source tree.

How can I get #!perl to work on [MS-DOS,NT,...]?

For OS/2 just use

```
  extproc perl -S -your_switches
```

as the first line in *.cmd file (-S due to a bug in cmd.exe's `extproc' handling). For DOS one should first invent a corresponding batch file and codify it in ALTERNATIVE_SHEBANG (see the INSTALL file in the source distribution for more information).

The Win95/NT installation, when using the ActiveState port of Perl, will modify the Registry to associate the .pl extension with the perl interpreter. If you install another port, perhaps even building your own Win95/NT Perl from the standard sources by using a Windows port of gcc (e.g., with cygwin or mingw32), then you'll have to modify the Registry yourself. In addition to associating .pl with the interpreter, NT people can use: SET PATHEXT=%PATHEXT%;.PL to let them run the program install-linux.pl merely by typing install-linux.

Macintosh Perl programs will have the appropriate Creator and Type, so that double-clicking them will invoke the Perl application.

IMPORTANT!: Whatever you do, PLEASE don't get frustrated, and just throw the perl interpreter into your cgi-bin directory, in order to get your programs working for a web server. This is an EXTREMELY big security risk. Take the time to figure out how to do it correctly.

Can I write useful Perl programs on the command line?

Yes. Read perlrun for more information. Some examples follow. (These assume standard Unix shell quoting rules.)

```perl
  # sum first and last fields
  perl -lane 'print $F[0] + $F[-1]' *
  # identify text files
  perl -le 'for(@ARGV) {print if -f && -T _}' *
  # remove (most) comments from C program
  perl -0777 -pe 's/\*/.*?\*/{ }gs' foo.c
  # make file a month younger than today, defeating reaper daemons
```
perl -e '$X=24*60*60; utime(time(),time() + 30 * $X,@ARGV)' *
# find first unused uid
perl -le '$i++ while getpwuid($i); print $i'
# display reasonable manpath
echo $PATH | perl -nl -072 -e 's![^/\+]*$!man!&&-d&&!$s{$_}++&&push@m,$_;END{print"@m"}'

OK, the last one was actually an Obfuscated Perl Contest entry. :-)

Why don't Perl one-liners work on my DOS/Mac/VMS system?
The problem is usually that the command interpreters on those systems have rather different ideas about quoting than the Unix shells under which the one-liners were created. On some systems, you may have to change single-quotes to double ones, which you must NOT do on Unix or Plan9 systems. You might also have to change a single % to a %%.

For example:

  # Unix
  perl -e 'print "Hello world\n"
  # DOS, etc.
  perl -e "print \"Hello world\n\"
  # Mac
  print "Hello world\n"
  (then Run "Myscript" or Shift-Command-R)
  # VMS
  perl -e "print ""Hello world\n""

The problem is that none of these examples are reliable: they depend on the command interpreter. Under Unix, the first two often work. Under DOS, it's entirely possible that neither works. If 4DOS was the command shell, you'd probably have better luck like this:

  perl -e "print <Ctrl-x>"Hello world\n<Ctrl-x>"

Under the Mac, it depends which environment you are using. The MacPerl shell, or MPW, is much like Unix shells in its support for several quoting variants, except that it makes free use of the Mac's non-ASCII characters as control characters.

Using qq(), q(), and qx(), instead of "double quotes", 'single quotes', and `backticks`, may make one-liners easier to write.

There is no general solution to all of this. It is a mess, pure and simple. Sucks to be away from Unix, huh? :-)  

[Some of this answer was contributed by Kenneth Albanowski.]

Where can I learn about CGI or Web programming in Perl?

For modules, get the CGI or LWP modules from CPAN. For textbooks, see the two especially dedicated to web stuff in the question on books. For problems and questions related to the web, like "Why do I get 500 Errors" or "Why doesn't it run from the browser right when it runs fine on the command line", see these sources:

WWW Security FAQ  
http://www.w3.org/Security/Faq/  
Web FAQ  
http://www.boutell.com/faq/  
CGI FAQ  
http://www.webthing.com/tutorials/cgifaq.html  
HTTP Spec  
http://www.w3.org/pub/WWW/Protocols/HTTP/  
HTML Spec  
http://www.w3.org/TR/REC-html40/  
http://www.w3.org/pub/WWW/MarkUp/
CGI Spec
http://www.w3.org/CGI/

CGI Security FAQ
http://www.go2net.com/people/paulp/cgi-security/safe-cgi.txt

Where can I learn about object-oriented Perl programming?
A good place to start is perltoot, and you can use perlobj, perlboot, and perlbot for reference. Perltoot didn't come out until the 5.004 release; you can get a copy (in pod, html, or postscript) from http://www.perl.com/CPAN/doc/FMTEYEWTK/.

Where can I learn about linking C with Perl? [h2xs, xsubpp]
If you want to call C from Perl, start with perlxstut, moving on to perlxv, xsubpp, and perlguts. If you want to call Perl from C, then read perlembed, percall, and perlguts. Don't forget that you can learn a lot from looking at how the authors of existing extension modules wrote their code and solved their problems.

I've read perlembed, perlguts, etc., but I can't embed perl in my C program; what am I doing wrong?
Download the ExtUtils::Embed kit from CPAN and run `make test'. If the tests pass, read the pods again and again and again. If they fail, see perlbug and send a bug report with the output of make test TEST_VERBOSE=1 along with perl -V.

When I tried to run my script, I got this message. What does it mean?
A complete list of Perl's error messages and warnings with explanatory text can be found in perldiag. You can also use the splain program (distributed with Perl) to explain the error messages:

perl program 2>diag.out
splain [-v] [-p] diag.out

or change your program to explain the messages for you:

use diagnostics;
or
use diagnostics -verbose;

What's MakeMaker?
This module (part of the standard Perl distribution) is designed to write a Makefile for an extension module from a Makefile.PL. For more information, see ExtUtils::MakeMaker.

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1078070746_1597834570.74/0/pod-simple-3-01-zip/pod-simple-3.01/t/test_old_perlfaq3_out.txt
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NAME
Pod::Simple::Checker -- check the Pod syntax of a document

SYNOPSIS
perl -MPod::Simple::Checker -e "exit Pod::Simple::Checker->filter(shift)->any_errata_seen" thingy.pod

DESCRIPTION
This class is for checking the syntactic validity of Pod.
It works by basically acting like a simple-minded version of
L<Pod::Simple::Text> that formats only the "Pod Errors" section
(if Pod::Simple even generates one for the given document).

This is a subclass of L<Pod::Simple> and inherits all its methods.

SEE ALSO
L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Checker>

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AUTHOR
Sean M. Burke C<sburke@cpan.org>


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=head1 NAME

Pod::Simple::SimpleTree -- parse Pod into a simple parse tree

=head1 SYNOPSIS

% cat ptest.pod

=head1 PIE

I like B<pie>!

% perl -MPod::Simple::SimpleTree -MData::Dumper -e \
"print Dumper(Pod::Simple::SimpleTree->new->parse_file(shift)->root)" \
ptest.pod

$VAR1 = [
  'Document',
  { 'start_line' => 1 },
  [
    'head1',
    { 'start_line' => 1 },
    'PIE'
  ],
  [
    'Para',
    { 'start_line' => 3 },
    'I like',
    [
      'B',
      { },
      'pie'
    ],
    '!
  ]
];

=head1 DESCRIPTION

This class is of interest to people writing a Pod processor/formatter.

This class takes Pod and parses it, returning a parse tree made just of arrayrefs, and hashrefs, and strings.

This is a subclass of L<Pod::Simple> and inherits all its methods.
This class is inspired by XML::Parser's "Tree" parsing-style, although it doesn't use exactly the same LoL format.

=head1 METHODS

At the end of the parse, call C<< $parser->root >> to get the tree's top node.

=head1 Tree Contents

Every element node in the parse tree is represented by an arrayref of the form: C<[ I<elementname>, \%attributes, I<...subnodes...> ]>.
See the example tree dump in the Synopsis, above.

Every text node in the tree is represented by a simple (non-ref) string scalar. So you can test C<ref($node)> to see whether you have an element node or just a text node.

The top node in the tree is C<[ 'Document', \%attributes, I<...subnodes...> ]>

=head1 SEE ALSO

L<Pod::Simple>

L<perllol>

L<The "Tree" subsubsection in XML::Parser/XML::Parser/"Tree">

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=head1 AUTHOR

Sean M. Burke C<sburke@cpan.org>
=head1 NAME
Pod::Simple::HTML - convert Pod to HTML

=head1 SYNOPSIS
perl -MPod::Simple::HTML -e Pod::Simple::HTML::go thingy.pod

=head1 DESCRIPTION
This class is for making an HTML rendering of a Pod document.

This is a subclass of L<Pod::Simple::PullParser> and inherits all its
methods (and options).

Note that if you want to do a batch conversion of a lot of Pod
documents to HTML, you should see the module L<Pod::Simple::HTMLBatch>.

=head1 CALLING FROM THE COMMAND LINE
TODO
perl -MPod::Simple::HTML -e Pod::Simple::HTML::go Thing.pod Thing.html

=head1 CALLING FROM PERL
TODO make a new object, set any options, and use parse_from_file

=head1 METHODS
TODO
all (most?) accessorized methods

=head1 SUBCLASSING
TODO
can just set any of:  html_css html_javascript title_prefix
    'html_header_before_title',
    'html_header_after_title',
    'html_footer',

maybe override do_pod_link

maybe override do_beginning do_end

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::HTMLBatch>

TODO: a corpus of sample Pod input and HTML output? Or common
idioms?

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=head1 AUTHOR

Sean M. Burke C<sburke@cpan.org>

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1078070746_1597834570.74/0/pod-simple-3-01-zip/pod-simple-
  3.01/lib/Pod/Simple/HTML.pm

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1.1181 jackson-annotations 2.9.9

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File: PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.1191 pcre 7.8

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The basic library functions are written in C and are freestanding. Also
included in the distribution is a set of C++ wrapper functions.

THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

University of Cambridge Computing Service,

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THE C++ WRAPPER FUNCTIONS

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1.1192 libcroco 0.6.12 4.el7
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 minibz2
 libbz2.dll test program.
 by Yoshioka Tsuneo (tsuneo@rr.ijj4u.or.jp)*/
usage: minibz2 [-d] [-{1,2,...9}] [[srcfilename] destfilename]

*/

1.1196 elfutils-libelf 0.176-2.el7
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File: PSReadLine

https://github.com/lzybkr/PSReadLine

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1.1203 libogg 1.3.0 7.el7

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---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at <module-build@perl.org>.

build_requires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Module-Build
resources:
MailingList: mailto:module-build@perl.org
license: http://dev.perl.org/licenses/
repository: http://github.com/dagolden/module-build/
version: 3

#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
  skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
  my $current_year = (gmtime)[5] + 1900;
  is $v_year, $current_year, 'perl -v copyright includes current year';
  is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
  is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!";

  # The copyright message is the first paragraph:
  local $/ = "; my $copyright_msg = <$readme>;

my ($year) = $copyright_msg =~ /.*\b(\d{4,})\b\s/ or die "Year not found in README copyright message '$copyright_msg'";

$year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b(\d{4,})\b/i or die "Copyright statement not found in perl -v output '$output'";
    $year;
}

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Jansen (jansen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(age@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) supplied the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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Version 3.1, 31 March 2009

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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with the Library, with the complete machine-readable "work that
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Version 2.1, February 1999

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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copy of the library already present on the user's computer system,
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will operate properly with a modified version of the library, if
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### 1.1213 fdisk 2.23.2-59.el7

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1.1215 jetty-io 9.4.10.v20180503

1.1216 system-directoryservices-accountmanagement powershell-preview-7.0.0_preview.6-1

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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* Allowing them being read would mean anyone with access to the channel could get them.
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/*
 * Set the {code TCP_MD5SIG} option on the socket. See {code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */

/*
 * Set the {code TCP_QUICKACK} option on the socket. See <a href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
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Mesa 3-D graphics library
Version: 7.0

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Additional -

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File: PSReadLine

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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h
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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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That's all there is to it!

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<!-- SECTION: Getting Started -->

<!-- SECTION: Getting Started -->

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```
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1.1243 jcl-over-slf4j 1.7.25

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1.1244 xdg-utils 1.1.0 0.17.20120809git.el7

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1.1246 d-conf 0.28.0 4.el7
1.1246.1 Available under license:

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1.1250 zlib 1.2.5

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*/

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Protocol Buffers for Go with Gadgets

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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package model

import "time"
// A CheckResponse is the internal content of the PublicCheckResponse signed
// json blob.

type CheckResponse struct {
    Expiration  time.Time `json:"expiration"
    Token       string    `json:"token"
    MaxEngines  int       `json:"maxEngines"
    ScanningEnabled bool    `json:"scanningEnabled"
    Type        string    `json:"licenseType"
    Tier        string    `json:"tier"
}

// IssuedLicense represents an issued license

type IssuedLicense struct {
    KeyID         string `json:"key_id"
    PrivateKey    string `json:"private_key"
    Authorization string `json:"authorization"
}

// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
    if l.KeyID == "" {
        return false, "empty key_id"
    }

    if l.PrivateKey == "" {
        return false, "empty private_key"
    }

    if l.Authorization == "" {
        return false, "empty authorization"
    }

    return true, ""
}

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```go
package engine

import (
    "bytes"
    "encoding/json"
    "strings"
    "testing"
    "time"
    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
    "gotest.tools/assert"
    is "gotest.tools/assert/cmp"
)

func TestSubscriptionContextWrite(t *testing.T) {
    cases := []struct {
        context  formatter.Context
        expected string
    }{
        // Errors
        
        formatter.Context{Format: "{{InvalidFunction}}"},
        "Template parsing error: template: :1: function "InvalidFunction" not defined",
        
        formatter.Context{Format: "{{nil}}"},
        "Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command",

        // Table format
        
        formatter.Context{Format: NewSubscriptionsFormat("table", false)},
    }
    
    // Check cases
    for _, c := range cases {
        actual, err := c.context.Write()
        if err != nil {
            t.Errorf("%s", err)
        }
        if actual != c.expected {
            t.Errorf("%s", is.NotEqual(actual, c.expected))
        }
    }
}
```
<table>
<thead>
<tr>
<th>NUM</th>
<th>OWNER</th>
<th>PRODUCT ID</th>
<th>EXPIRES</th>
<th>PRICING COMPONENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>owner1</td>
<td>productid1</td>
<td>2020-01-01 10:00:00 +0000 UTC</td>
<td>compstring</td>
</tr>
<tr>
<td>2</td>
<td>owner2</td>
<td>productid2</td>
<td>2020-01-01 10:00:00 +0000 UTC</td>
<td>compstring</td>
</tr>
</tbody>
</table>

```
1: License Name: name1
   Quantity: 10 nodes
   Expiration date: 2020-01-01
2: License Name: name2
   Quantity: 20 nodes
   Expiration date: 2020-01-01
```
formatter.Context{Format: NewSubscriptionsFormat("{{.Owner}}", false)},
"owner1
owner2
",
},
}

expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
submissions := []licenseutils.LicenseDisplay{
{
Num: 1,
Owner: "owner1",
Subscription: model.Subscription{
ID: "id1",
Name: "name1",
ProductID: "productid1",
Expires: &expiration,
PricingComponents: model.PricingComponents{
&model.SubscriptionPricingComponent{
Name: "nodes",
Value: 10,
},
},
ComponentsString: "compstring",
},
{
Num: 2,
Owner: "owner2",
Subscription: model.Subscription{
ID: "id2",
Name: "name2",
ProductID: "productid2",
Expires: &expiration,
PricingComponents: model.PricingComponents{
&model.SubscriptionPricingComponent{
Name: "nodes",
Value: 20,
},
},
ComponentsString: "compstring",
},
}
out := &bytes.Buffer{
}
testcase.context.Output = out
err := SubscriptionsWrite(testcase.context, subscriptions)
if err != nil {
    assert.Error(t, err, testcase.expected)
} else {
    assert.Check(t, is.Equal(testcase.expected, out.String()))
}

func TestSubscriptionContextWriteJSON(t *testing.T) {
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
subscriptions := []licenseutils.LicenseDisplay{
    {
        Num: 1,
        Owner: "owner1",
        Subscription: model.Subscription{
            ID: "id1",
            Name: "name1",
            ProductID: "productid1",
            Expires: &expiration,
            PricingComponents: model.PricingComponents{
                &model.SubscriptionPricingComponent{
                    Name: "nodes",
                    Value: 10,
                },
            },
            ComponentsString: "compstring",
        },
        Num: 2,
        Owner: "owner2",
        Subscription: model.Subscription{
            ID: "id2",
            Name: "name2",
            ProductID: "productid2",
            Expires: &expiration,
            PricingComponents: model.PricingComponents{
                &model.SubscriptionPricingComponent{
                    Name: "nodes",
                    Value: 20,
                },
            },
            ComponentsString: "compstring",
        },
    }
}
expectedJSONs := []map[string]interface{}{


{
"Owner":
"owner1",
"ComponentsString": "compstring",
"Expires":
"2020-01-01T10:00:00Z",
"DockerID":
"",
"Eusa":
nil,
"ID":
"id1",
"Start":
nil,
"Name":
"name1",
"Num":
float64(1),
"PricingComponents": []interface{}{
map[string]interface{}{
"name": "nodes",
"value": float64(10),
},
},
"ProductID":
"productid1",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State":
"",
"Summary":
"License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01",
},
{
"Owner":
"owner2",
"ComponentsString": "compstring",
"Expires":
"2020-01-01T10:00:00Z",
"DockerID":
"",
"Eusa":
nil,
"ID":
"id2",
"Start":
nil,
"Name":
"name2",
"Num":
float64(2),
"PricingComponents": []interface{}{
map[string]interface{}{
"name": "nodes",
"value": float64(20),
},
},
"ProductID":
"productid2",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State":
"",
"Summary":
"License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01",
},
}
out := &bytes.Buffer{}
err := SubscriptionsWrite(formatter.Context{Format: "{{json .}}", Output: out}, subscriptions)

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if err != nil {
    t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
    var m map[string]interface{}
    if err := json.Unmarshal([]byte(line), &m); err != nil {
        t.Fatal(err)
    }
    assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}

func TestSubscriptionContextWriteJSONField(t *testing.T) {
    subscriptions := []licenseutils.LicenseDisplay{
        {Num: 1, Owner: "owner1"},
        {Num: 2, Owner: "owner2"},
    }
    out := &bytes.Buffer{
    }
    if err != nil {
        t.Fatal(err)
    }
    for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
        var s string
        if err := json.Unmarshal([]byte(line), &s); err != nil {
            t.Fatal(err)
        }
        assert.Check(t, is.Equal(subscriptions[i].Owner, s))
    }
}

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package licensing

import (
    "context"
    "crypto/hmac"
    "crypto/sha256"
    "encoding/base64"
    "encoding/json"
    "fmt"
    "time"
    "github.com/docker/libtrust"
    "github.com/docker/licensing/lib/errors"
    "github.com/docker/licensing/lib/go-clientlib"
    "github.com/docker/licensing/model"
)

func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {
    url := c.baseURI
    url.Path += fmt.Sprintf(`/api/billing/v4/subscriptions/%s/license-file`, subID)

    license := new(model.IssuedLicense)
    if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
        return nil, err
    }

    return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
    keyID := license.KeyID
    privateKey := license.PrivateKey
    authorization, err := c.getAuthorization(ctx, license)
    if err != nil {
        return nil, err
    }

    signature, err := libtrust.ParseJWS(authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license parse JWS failed")
    }

    // TODO: Mason - replace this parseJWS with a non libtrust lib
    signature, err := libtrust.ParseJWS(license)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license parse JWS failed")
    }

    return signature, nil
}
keys, err := signature.Verify()
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license signature verification failed")
}

keyCnt := len(keys)
if keyCnt != 1 {
    err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
    return nil, errors.WithStack(err).With(errors.Fields{
        "key_id": keyID,
    })
}

key := keys[0]
if !c.recognizedSigningKey(key) {
    return nil, errors.New("unrecognized signing key")
}

payload, err := signature.Payload()
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "malformed signature payload")
}

checkRes := new(model.CheckResponse)
err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    })
}

return checkRes, nil
// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if key.KeyID() == publicKey.KeyID() {
            return true
        }
    }
    return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": license.KeyID,
        }, "decoding license authorization failed")
    }
    return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly
// formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
    tokenBytes, err := base64.URLEncoding.DecodeString(token)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }
    generatedToken, err := generateToken(message, privateKey)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }
    generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }
    if !hmac.Equal(tokenBytes, generatedBytes) {
        return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
    }
}
return nil
}

// generateToken generates a hash of the message with the privateKey via the // sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
    if err != nil {
        return "", errors.Wrap(err, errors.Fields="msg": message))
    }

    h := hmac.New(sha256.New, key)
    h.Write([]byte(message))
    return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

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package engine

import ( "time"
const (
    defaultSubscriptionsTableFormat = "table
    {{.Num}}	{{.Owner}}	{{.ProductID}}	{{.Expires}}	{{.ComponentsString}}"
    defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"
    numHeader               = "NUM"
    ownerHeader             = "OWNER"
    licenseNameHeader       = "NAME"
    idHeader                = "ID"
    dockerIDHeader          = "DOCKER ID"
    productIDHeader         = "PRODUCT ID"
    productRatePlanHeader   = "PRODUCT RATE PLAN"
    productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
    startHeader             = "START"
    expiresHeader           = "EXPIRES"
    stateHeader             = "STATE"
    eusaHeader              = "EUSA"
    pricingComponentsHeader = "PRICING COMPONENTS"
)

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
    switch source {
    case formatter.TableFormatKey:
        if quiet {
            return defaultSubscriptionsQuietFormat
        }
        return defaultSubscriptionsTableFormat
    case formatter.RawFormatKey:
        if quiet {
            return `license: {{.ID}}`
        }
        return `license: {{.ID}}
            name: {{.Name}}
            owner: {{.Owner}}
            components: {{.ComponentsString}}`
    }
    return formatter.Format(source)
}

// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
    render := func(format func(subContext formatter.SubContext) error) error {
        for _, sub := range subs {
            licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
            if err := format(licenseCtx); err != nil {
                return err
            }
        }
        return nil
    }
    return render
}
if err := format(licenseCtx); err != nil {
    return err
}

licenseCtx := licenseContext{
    LicenseCtx.Header = map[string]string{
        "Num": numHeader,
        "Owner": ownerHeader,
        "Name": licenseNameHeader,
        "ID": idHeader,
        "DockerID": dockerIDHeader,
        "ProductID": productIDHeader,
        "ProductRatePlan": productRatePlanHeader,
        "ProductRatePlanID": productRatePlanIDHeader,
        "Start": startHeader,
        "Expires": expiresHeader,
        "State": stateHeader,
        "Eusa": eusaHeader,
        "ComponentsString": pricingComponentsHeader,
    }
    return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
    header Context
    trunc bool
    l licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
    return formatter.MarshalJSON(c)
}

func (c *licenseContext) Num() int {
    return c.l.Num
}

func (c *licenseContext) Owner() string {
    return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {
    return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {

func (c *licenseContext) Name() string {
    return c.l.Name
}

func (c *licenseContext) ID() string {
    return c.l.ID
}

func (c *licenseContext) DockerID() string {
    return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
    return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
    return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
    return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
    return c.l.Expires
}

func (c *licenseContext) State() string {
    return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
    return c.l.Eusa
}

func (c *licenseContext) PricingComponents() [][]model.SubscriptionPricingComponent {
    // Dereference the pricing component pointers in the pricing components
    // so it can be rendered properly with the template formatter

    var ret [][]model.SubscriptionPricingComponent

    return c.l.String()
for _, spc := range c.l.PricingComponents {
    if spc == nil {
        continue
    }
    ret = append(ret, *spc)
}
return ret

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The End

1.1257 spidermonkey mozjs17-17.0.0-20.el7

1.1257.1 Available under license:

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This is JavaScriptCore's variant of the PCRE library. While this library started out as a copy of PCRE, many of the features of PCRE have been removed.

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size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---

#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

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 */

Initialize empty image
f1c9645d8d314ed86e8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>83</td>
<td>Linux</td>
</tr>
</tbody>
</table>

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout--------
__ts_dev__ : 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
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<tr>
<td>__ts_dev__1</td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
</tbody>
</table>

Create 2st primary partition
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbeb sd.img

---layout--------
__ts_dev__ : 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
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<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
<tr>
<td>__ts_dev__2</td>
<td>4096</td>
<td>20479</td>
<td>8192</td>
<td>a5</td>
<td>FreeBSD</td>
</tr>
</tbody>
</table>

Create default BSD
2e1cee529cb59e9341afe0443f196a1 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
<table>
<thead>
<tr>
<th>#</th>
<th>start</th>
<th>end</th>
<th>size</th>
<th>fstype</th>
<th>[fsize bsize cpg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>c:</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>unused</td>
<td>0 0</td>
</tr>
<tr>
<td>d:</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>unused</td>
<td>0 0</td>
</tr>
</tbody>
</table>

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Command (m for help):

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<th>size</th>
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<th>[fsize bsize cpg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>a:</td>
<td>4096</td>
<td>6144</td>
<td>2049</td>
<td>4.2BSD</td>
<td>0 0 0</td>
</tr>
<tr>
<td>c:</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>unused</td>
<td>0 0</td>
</tr>
<tr>
<td>d:</td>
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<td>0 0</td>
</tr>
</tbody>
</table>

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
| 0  unused | 5  4.1BSD | 9  4.4LFS | d  boot |
| 1  swap    | 6  Eighth Edition | a  unknown | e  ADOS |
| 2  Version 6 | 7  4.2BSD | b  HPFS   | f  HFS |
BSD disklabel command (m for help):
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* Cordys R&D BV
1.1260 microsoft-powershell-nanoserver-netcore-library 7.0.0-preview.6

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Additional -
File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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File: PSReadLine
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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: HashTables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershell-s-built-in-h

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c) If distribution of the work is made by offering access to copy
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For an executable, the required form of the "work that uses the
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in the event an application does not supply such function or
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File: PSReadLine

https://github.com/lzybkr/PSReadLine

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//
//
////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#if (defined _MSC_VER) && (_MSC_VER >= 1200)
  #pragma once
#endif

#ifdef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#endif

#if (defined __MSC_VER) && (__MSC_VER >= 1200)
  #pragma once
#endif
#endif

#include <cstdint>

namespace boost {
namespace container {
namespace container_detail {

template <class T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T, val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;  
    operator bool() const { return bool_.value; }
};

typedef bool_<true>   true_;
typedef bool_<false>  false_;

typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> { };  

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> { };  

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> { };
template <bool B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };  
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
        enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) }; 
};

template<
    bool C
, typename T1
, typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
, typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
, typename T2
, typename T3
>
struct if_<
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
// : public std::unary_function<Pair, typename Pair::first_type>
template<class OtherPair>
const typename Pair::first_type& operator()(const OtherPair& x) const
{  return x.first;  }

const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
{  return x;  }

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<> struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<> struct ls_zeros<1>
{
    static const std::size_t value = 0;
};
template <typename T> struct unvoid { typedef T type; };
template <> struct unvoid<void> { struct type { }; };
template <> struct unvoid<const void> { struct type { }; };

}  //namespace container_detail {
}  //namespace container {
}  //namespace boost {
#endif  //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

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[quickbook 1.5]
All the value based traits in this library conform to MPL’s requirements for an [Integral Constant type]: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that ‘__true_type’ inherits from [`boost::mpl::true_`], ‘__false_type’ inherits from [`boost::mpl::false_`], and ‘__integral_constant<T, v>` inherits from [`boost::mpl::integral_c<T,v>`] (provided ‘T’ is not ‘bool’).
#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#  pragma once
#endif

#include <cstddef>

namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;
};

typedef bool_<true> true_;
typedef bool_<false> false_;
typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};
template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };  
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
 , typename T1
 , typename T2
 >
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
 , typename T2
 >
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
 , typename T2
 , typename T3
 >
struct if_
typedef typename if_c<0 != T1::value, T2, T3>::type type;

template <class Pair>
struct select1st
//  : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;  }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;  }
}

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//  : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

}  //namespace ipcdetail {
}  //namespace interprocess {
}  //namespace boost {
Maybe this should pass?
<?xml version="1.0" encoding="utf-8";?><!--
<!-- Copyright (c) 2001-2006 CrystalClear Software, Inc.
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(See accompanying file LICENSE_1_0.txt or http://www.boost.org/LICENSE_1_0.txt)-->
<section id="date_time.license">
<title>Boost Date-Time Library License</title>
<bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>
<!--
<ulink url="../../../index.htm">
<imagedata align="left"
format="GIF"
fileref="../../../boost.png"
alt="C++ Boost"/>
</ulink>-->
<!--hr /-->
<para> The following is the overall license for the boost date_time library. This notice is found in all source files related to the library. </para>
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<!--hr /-->
<ulink url="mailto:jeff@crystalclearsoftware.com">Jeff Garland</ulink> &amp;#169; 2000-2002
</section>
#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>
namespace boost {
namespace intrusive {
namespace detail {

typedef char one;
struct two {one _[2];};

template< bool C_ >
struct bool_
{
    static const bool value = C_;
};

typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c { 
    typedef T type;
};

} // namespace detail
} // namespace intrusive
} // namespace boost
#endif // #ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
template <class T>
struct enable_if_c<false, T> {}
;

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {}
;

template <class F, class Param>
struct apply
{
    typedef typename F::template apply<Param>::type type;
};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]{}; };  
    static true_t dispatch(U);
    static false_t dispatch(...);
    static const T &trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
    , typename T1
    , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
    , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename C
    , typename T1
    , typename T2
>

struct if_
{
    typedef typename if_c<0 != C::value, T1, T2>::type type;
};

template<
    bool C
    , typename F1
    , typename F2
    >
struct eval_if_c
    : if_c<C,F1,F2>::type
{};

template<
    typename C
    , typename T1
    , typename T2
    >
struct eval_if
    : if_<C,T1,T2>::type
{};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T type;
};

#if defined(BOOST_MSVC) || defined(__BORLANDC_)
#define BOOST_INTRUSIVE_TT_DECL __cdecl
#else
#define BOOST_INTRUSIVE_TT_DECL
#endif
#if defined(_MSC_EXTENSIONS) && !defined(__BORLAND__) && !defined(_WIN64) &&
!defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename T>
struct is_unary_or_binary_function_impl
{
    static const bool value = false;
};

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
template <typename R>
struct is_unary_or_binary_function_impl<R (*)()>
{  static const bool value = true;  };

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(...)>
{  static const bool value = true;  };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (__stdcall*)()>
{  static const bool value = true;  };

#ifndef _MANAGED

template <typename R>
struct is_unary_or_binary_function_impl<R (__fastcall*)()>
{  static const bool value = true;  };

#endif

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)()>
{  static const bool value = true;  };

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)(...)>
{  static const bool value = true;  };

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0)>;

#endif

// else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0...)>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0)>
{  static const bool value = true;  };
#endif

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0)>
{  static const bool value = true;  };
#endif

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0)>
{  static const bool value = true;  };
template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0...)>
{  static const bool value = true;  };
#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1)>
{  static const bool value = true;  };
template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>
{  static const bool value = true;  };
#endif // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>
{  static const bool value = true;  };
#ifndef _MANAGED
template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>
{  static const bool value = true;  };
#endif
#endif

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1)>
{  static const bool value = true;  };

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1...)
{  static const bool value = true;  };
#endif

template <typename T>
struct is_unary_or_binary_function_impl<T&>
{  static const bool value = false;  };

template<typename T>
struct is_unary_or_binary_function
{  static const bool value = is_unary_or_binary_function_impl<T>::value;  };

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative

template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{  char c;
   T t;
   alignment_of_hack();
};

template <unsigned A, unsigned S>
struct alignment_logic
{  static const std::size_t value = A < S ? A : S;
};

template <typename T>
struct alignment_of
{  static const std::size_t value = alignment_logic
       < sizeof(alignment_of_hack<T>) - sizeof(T)
          , sizeof(T)
     >::value;
};

template <typename T, typename U>
struct is_same
{  typedef char yes_type;
   struct no_type

{  
    char padding[8];
};

template <typename V>
static yes_type is_same_tester(V*, V*);
static no_type is_same_tester(...);

static T *t;
static U *u;

static const bool value = sizeof(yes_type) == sizeof(is_same_tester(t,u));
};

template<typename T>
struct add_const
{  
    typedef const T type;
};

template<typename T>
struct remove_const
{  
    typedef  T type;
};

template<typename T>
struct remove_const<const T>
{  
    typedef  T type;
};

template<typename T>
struct remove_cv
{  
    typedef  T type;
};

template<typename T>
struct remove_cv<const T>
{  
    typedef  T type;
};

template<typename T>
struct remove_cv<const volatile T>
{  
    typedef  T type;
};

template<typename T>
struct remove_cv<volatile T>
{  
    typedef  T type;
};

template<class T>
struct remove_reference
{  
    typedef T type;
};
template<class T>
struct remove_reference<T&>
{
    typedef T type;
};

template<class Class>
class is_empty_class
{
    template <typename T>
    struct empty_helper_t1 : public T
    {
        empty_helper_t1();
        int i[256];
    };

    struct empty_helper_t2
    { int i[256]; };

    public:
    static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

#include <boost/intrusive/detail/config_end.hpp>

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP
The default copyright note for C++ source files reads:

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Index: boost/mpl/print.hpp

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http://www.boost.org/LICENSE_1_0.txt)

============================================================================
All the value based traits in this library conform to MPL's requirements for an Integral Constant type: that includes a number of rather intrusive workarounds for broken compilers.
Purely as an implementation detail, this means that `__true_type` inherits from `boost::mpl::true_`, `__false_type` inherits from `boost::mpl::false_`, and `__integral_constant<T, v>` inherits from `boost::mpl::integral_c<T,v>` (provided `T` is not `bool`)

[endsect]

Boost.Geometry (aka GGL, Generic Geometry Library)

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Version 1.0. (See accompanying file LICENSE_1_0.txt or copy at
http://www.boost.org/LICENSE_1_0.txt)
#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>

namespace boost {
namespace intrusive {
namespace detail {

typedef char one;
struct two {one _[2];};

template< bool C_ >
struct bool_
{
    static const bool value = C_;
};

typedef bool_<true>        true_;
typedef bool_<false>       false_;
typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {}
;

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template<class F, class Param>
struct apply
{
    typedef typename F::template apply<Param>::type type;
}
template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2];};
    static true_t dispatch(U);
    static false_t dispatch(...);
    static const T &trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<typename T1, typename T2>
struct if_c
{
    typedef T1 type;
};

template<typename T1, typename T2>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<typename C, typename T1, typename T2>
struct if_<
{
    typedef typename if_c<0 != C::value, T1, T2>::type type;
};

template<typename F1, typename F2>

struct eval_if_c
  : if_c<C,F1,F2>::type
{};

template<
    typename C
  , typename T1
  , typename T2
>
struct eval_if
  : if_c<T1,T2>::type
{};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
  typedef T type;
};

#if defined(BOOST_MSVC) || defined(__BORLANDC_)
#define BOOST_INTRUSIVE_TT_DECL __cdecl
#else
#define BOOST_INTRUSIVE_TT_DECL
#endif
#if defined(_MSC_EXTENSIONS) && !defined(__BORLAND__) && !defined(_WIN64) && !defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename T>
struct is_unary_or_binary_function_impl
{
  static const bool value = false;
};

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(())>
{
  static const bool value = true;
};

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(...)>
{
  static const bool value = true;
};
#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (__stdcall*)(...)>
{  static const bool value = true;  };
#endif

#define MANAGED

template <typename R>
struct is_unary_or_binary_function_impl<R (__fastcall*)(...)>
{  static const bool value = true;  };
#endif

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)(...)>
{  static const bool value = true;  };
#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0)>  
{  static const bool value = true;  };
#endif // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0...)>
{  static const bool value = true;  };
#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0)>    
{  static const bool value = true;  };
#endif

#endif

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0)>
{ static const bool value = true; }; 

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0...)>
{ static const bool value = true; }; 

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1)>
{ static const bool value = true; }; 

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>
{ static const bool value = true; }; 

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>
{ static const bool value = true; }; 

#ifndef _MANAGED

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>
{ static const bool value = true; }; 

#endif

#endif

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1)>
{ static const bool value = true; }; 

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1...)>
{ static const bool value = true; }; 

#endif
{ static const bool value = false; };

template<typename T>
struct is_unary_or_binary_function
{ static const bool value = is_unary_or_binary_function_impl<T>::value; };

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative
template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{
    char c;
    T t;
    alignment_of_hack();
};

template <unsigned A, unsigned S>
struct alignment_logic
{
    static const std::size_t value = A < S ? A : S;
};

template<typename T>
struct alignment_of
{
    static const std::size_t value = alignment_logic
        < sizeof(alignment_of_hack<T>) - sizeof(T)
        , sizeof(T)
        >::value;
};

template <typename T, typename U>
struct is_same
{
    typedef char yes_type;
    struct no_type
    {
        char padding[8];
    };

template <typename V>
static yes_type is_same_tester(V*, V*);
static no_type is_same_tester(...);

    static T *t;
    static U *u;
static const bool value = sizeof(yes_type) == sizeof(is_same_tester(t,u));
;

template<typename T>
struct add_const
{  typedef const T type;  };

template<typename T>
struct remove_const
{  typedef T type;  };

template<typename T>
struct remove_const<const T>
{  typedef T type;  };

template<typename T>
struct remove_cv
{  typedef T type;  };

template<typename T>
struct remove_cv<const T>
{  typedef T type;  };

template<typename T>
struct remove_cv<const volatile T>
{  typedef T type;  };

template<typename T>
struct remove_cv<volatile T>
{  typedef T type;  };

template<class T>
struct remove_reference
{
    typedef T type;
};

template<class T>
struct remove_reference<T&>
{
    typedef T type;
};

template<class Class>
class is_empty_class
{
    template <typename T>
struct empty_helper_t1 : public T
{
    empty_helper_t1();
    int i[256];
};

struct empty_helper_t2
{ int i[256]; }; public:
static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};
} //namespace detail
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#ifndef //BOOST_INTRUSIVE_DETAIL_MPL_HPP
/*
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 * Boost Software License, Version 1.0. (See accompanying file
 * Boost Software License, Version 1.0. (See accompanying file
 * LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE_1_0.txt)
 */
#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

#include "licence_info.hpp"
// split_path is a small helper for outputting a path name,
// complete with a link to that path:

// struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f) {}
private:
    split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href=" << (p.root / p.file).string() << ">">" << p.file.string() << ">";
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
i = m_license_data.begin();
j = m_license_data.end();

std::ofstream os(m_dest_path.string().c_str());
if(!os)
{
    std::string msg("Error opening ");
    msg += m_dest_path.string();
    msg += " for output.");
    std::runtime_error e(msg);
    boost::throw_exception(e);
}

os <<
"<!DOCTYPE HTML PUBLIC \"-//W3C//DTD HTML 4.0 Transitional//EN\"\n"
"<html>
"<head>
"<title>Boost Licence Dependency Information</title>
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

os <<
"</title>
"</head>
"<body>
"<H1>Boost Licence Dependency Information</H1>
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

os <<
"</H1>
"<H2>Contents</H2>
"<pre><a href="#input">Input Information</a>
if(!m_bsl_summary_mode)
    os << "<a href="#summary">Licence Summary</a>
    os << "<a href="#details">Licence Details</a>
while(i != j)
{
    // title:
    os << " <A href="" << make_link_target(licenses.first[i->first].license_name)
        "">" << licenses.first[i->first].license_name << "</a>\n"
    ++i;
}

os << "<a href="#files">Files with no recognised license</a>
"<a href="#authors">Files with no recognised copyright holder</a>\n";
if(!m_bsl_summary_mode)
{
    os <<
    "Moving to the Boost Software License...
"
    "<a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>\n"
    "<a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>\n"
    "<a href="#not-to-bsl">Files that cannot be moved to the Boost Software License</a>\n"
    "<a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>\n"
    "<a href="#copyright">Copyright Holder Information</a>\n";
}
    os <<
    "<a href="#depend">File Dependency Information</a>\n"
    "</pre>";

//
// input Information:
//
    os << "<a name="input"></a><h2>Input Information</h2>
    if(m_scan_mode)
    os << "<P>The following files were scanned for boost dependencies:<BR>
    else
    os << "<P>The following Boost modules were checked:<BR>

    std::list<std::string>::const_iterator si = m_module_list.begin();
    std::list<std::string>::const_iterator sj = m_module_list.end();
    while(si != sj)
    {
        os << *si << "<BR>
        ++si;
    }
    os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></P>
    //
    // extract the boost version number from the boost directory tree,
    // not from this app (which may have been built from a previous
    // version):
    //
    fileview version_file(m_boost_path / "boost/version.hpp");
    static const boost::regex version_regex("^[[:blank:]]*#\[[:blank:]]*define\n[[:blank:]]\[[:blank:]]+BOOST\_VERSION[[:blank:]]+(\d+)\);
    boost::cmatch what;
    if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
    {
        int version = boost::lexical_cast<int>(what.str(1));
        os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100 << "</p>";
    }
}
// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    //
    // start with the summary:
    //
    os << "\"<a name="summary\">\</a><h2>Licence Summary</h2>\";
    while(i != j)
    {
        // title:
        os << "\"<H3>\" << licenses.first[i->first].license_name << "\</H3>\";
        // license text:
        os << "\"<BLOCKQUOTE>" << licenses.first[i->first].license_text << "\</BLOCKQUOTE>\";
        // Copyright holders:
        os << "\"<P>This license is used by \" << i->second.authors.size() << " authors and \" << i->second.files.size() << " files \<a href="#\" << make_link_target(licenses.first[i->first].license_name) << "\">(see details)</a>\";
        os << "\"</P>\";
        ++i;
    }
    //
    // and now the details:
    //
i = m_license_data.begin();
j = m_license_data.end();
    int license_index = 0;
    os << "\"<a name="details\">\</a><h2>Licence Details</h2>\";
    while(i != j)
    {
        // title:
        os << "\"<H3>\" << licenses.first[i->first].license_name << "\</H3>\";
        // license text:
        os << "\"<BLOCKQUOTE>" << licenses.first[i->first].license_text << "\</BLOCKQUOTE>\";
        if(!m_bsl_summary_mode || (license_index >= 3))
        {
            // Copyright holders:
            os << "\"<P>This license is used by the following \" << i->second.authors.size() << " copyright holders:\<P>\n";
            std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
    os << *x << "<BR>
";
    ++x;
}

os << "/P</BLOCKQUOTE>
";

// Files using this license:
os << "/P>This license applies to the following " << i->second.files.size() << " "
files:
/P>\n</BLOCKQUOTE><P>
"; 
std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
    os << split_path(m_boost_path, *m) << "<br>
";
    ++m;
}

os << "/P</BLOCKQUOTE>
";
}
else
{
    os << "/P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
    os << "/P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
}
++license_index;
++i;
}

// Output list of files not found to be under license control:
//
os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2>\n"

"<P>The following " << m_unknown_licenses.size() << " files had no recognisable license
information:</P>\n</BLOCKQUOTE><P>\n";
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
";
    ++i2;
}
os << "/p</BLOCKQUOTE>";
//
// Output list of files with no found copyright holder:
//
os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2>\n"

"<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright
holder:</P>\n</BLOCKQUOTE><P>";


i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
  os << split_path(m_boost_path, *i2) << "<br>";
  ++i2;
}
os << "</p></BLOCKQUOTE>
if(!m_bsl_summary_mode)
{

// Output list of files that have been moved over to the Boost
// Software License, along with enough information for human
// verification.

//
os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software
License</h2>

<< "<p>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost
Software License, but require manual verification before they can be committed to CVS:</p>
if (!m_converted_to_bsl.empty())
{
  typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
::const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin(),
ie = m_converted_to_bsl.end();
int file_num = 1;
while (i != ie)
{
  os << "<P>" << file_num << " File: <tt>" << split_path(m_boost_path, i->first)
  << "</tt><br>
  <table border="1" cellpadding="0" cellspacing="0">
    <tr>
      <td><pre>" << i->second.first << "</pre></td>
    </tr>
    <tr>
      <td><pre>" << i->second.second << "</pre></td>
    </tr>
  </table>
  ++i;
  ++file_num;
}

// Output list of files that could be moved over to the Boost Software License

//
os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>

"<p>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost
Software License, but have not yet been:</p>
if (!m_can_migrate_to_bsl.empty())
{
i2 = m_can_migrate_to_bsl.begin();
j2 = m_can_migrate_to_bsl.end();
while(i2 != j2)
{
  os << split_path(m_boost_path, *i2) << "<br>";
  ++i2;
}
// Output list of files that can not be moved over to the Boost Software License
//
// The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:" << <BLOCKQUOTE><P>
  i2 = m_cannot_migrate_to_bsl.begin();
  j2 = m_cannot_migrate_to_bsl.end();
  while(i2 != j2)
  {
    os << split_path(m_boost_path, *i2) << "\n";
    ++i2;
  }  
  os << "</P></BLOCKQUOTE>";
  // Output list of authors that we need permission for to move to the BSL
  //
  os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>\n"
  "<P>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>." << <BLOCKQUOTE><P>
  std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
          std::ostream_iterator<std::string>(os, "\n"));
  os << "</P></BLOCKQUOTE>";
  // output a table of copyright information:
  //
  os << "<h2><a name="copyright"></a>Copyright Holder Information</h2>\n"
  std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
  ad = m_author_data.begin();
  ead = m_author_data.end();
  while(ad != ead)
  {
    os << "<tr><td>" << ad->first << "</td>\n";
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
    efi = ad->second.end();
    while(fi != efi)
    {
      os << split_path(m_boost_path, *fi) << "\n";
      ++fi;
    }
    os << "</tr>\n";
    ++ad;
  }
// output file dependency information:
//
// os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
    ::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
                     ie = m_converted_to_bsl.end();
    while(i != ie)
    {
        bad_paths.insert(i->first);
        ++i;
    }
    fi = bad_paths.begin();
efi = bad_paths.end();
    os << "<P>For brevity, only files not under the BSL are shown</P>\n";
}
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
        while(true)
        {
            os << " \rightarrow ";
            if(fs::exists(m_boost_path / dep->second))
                os << split_path(m_boost_path, dep->second);
            else if(fs::exists(dep->second))
                os << split_path(fs::path(), dep->second);
            else
                os << dep->second.string();
if(seen_deps.find(dep->second) != seen_deps.end())
{
    os << " <I>(Circular dependency!)</I>";
    break; // circular dependency!!!
}
seen_deps.insert(dep->second);
last_dep = dep;
dep = m_dependencies.find(dep->second);
if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
    break;
    os << "\n";
++fi;
}
os << "</pre></BLOCKQUOTE>\n";

os << "</body></html>";

if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ".
    std::runtime_error e(msg);
    boost::throw_exception(e);
}
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<title>MPL Interoperability</title>
<link rel="stylesheet" href="../../../../doc/src/boostbook.css" type="text/css">
<meta name="generator" content="DocBook XSL Stylesheets V1.77.1">
<link rel="home" href="../index.html" title="Chapter 1. Boost.TypeTraits">
<link rel="up" href="../index.html" title="Chapter 1. Boost.TypeTraits">
<link rel="prev" href="intrinsics.html" title="Support for Compiler Intrinsics">
<link rel="next" href="examples.html" title="Examples">
</head>
<body bgcolor="white" text="black" link="#0000FF" vlink="#840084" alink="#0000FF">
<table cellpadding="2" width="100%" cellspacing="0" align="center">
<tr align="center">
All the value based traits in this library conform to MPL’s requirements for an Integral Constant type: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that

\[
\text{true_type}
\]

inherits from \(\text{boost} < \text{false_type} \),
\[
\text{false_type}
\]

inherits from \(\text{false_type} \),
\[
\text{integral_constant}<T,v>
\]

inherits from \(\text{IntegralConstant}_T\) (provided \(T\) is not \(\text{bool}\)).
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation.
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied Linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.

David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@ groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)
#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#pragma once
#endif

#include <cstddef>

namespace boost {
    namespace interprocess {
        namespace ipcdetail {

            template <class T, T val>
            struct integral_constant {
                static const T value = val;
                typedef integral_constant<T,val> type;
            };

            template< bool C_ >
            struct bool_ : integral_constant<bool, C_> {
                static const bool value = C_;
            };

            typedef bool_<true>        true_;
            typedef bool_<false>       false_;

            typedef true_  true_type;
            typedef false_ false_type;

            typedef char yes_type;
            struct no_type
            {
                char padding[8];
            };

        } // namespace ipcdetail
    } // namespace interprocess
} // namespace boost

}; // namespace boost

#endif // #ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };  
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C  
    , typename T1  
    , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1  
    , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
typename T1
, typename T2
, typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;  }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;  }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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The following people hereby grant permission to replace all existing licenses on their contributions to Boost with the Boost Software License, Version 1.0. (boostinspect:nolicense boostinspect:nocopyright)

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// // ///////////////////////////////////////////////////////////////////////////

 ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
 define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

 ifdef _MSC_VER && (_MSC_VER >= 1200)
 # pragma once
 endif

 #include <cstddef>

 namespace boost {
namespace container { 
namespace container_detail { 

template <class T, T val> 
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T,val> type;
};

template< bool C_ >  
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_; 
    operator bool() const { return bool_::value; } 
};

typedef bool_<true>    true_; 
typedef bool_<false>   false_;

typedef true_  true_type; 
tytypedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void> 
struct enable_if_c {
    typedef T type;
};

template <class T> 
struct enable_if_c<false, T> {};

template <class Cond, class T = void> 
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void> 
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <bool B, class T = void> 
struct disable_if_c : public enable_if_c<!B, T> {};

template <class T, class U> 
class is_convertible
typedef char true_t;
class false_t { char dummy[2]; }
static true_t dispatch(U);
static false_t dispatch(...);
static T trigger();
public:
enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) };
}

template<
    bool C
    , typename T1
    , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
    , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
    , typename T2
    , typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
// : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    { return x.first;  }
const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
{  return x;  }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
  typedef T type;
  const T& operator()(const T& x) const
  { return x; }
};

template<std::size_t S>
struct ls_zeros
{
  static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<> struct ls_zeros<0>
{
  static const std::size_t value = 0;
};

template<> struct ls_zeros<1>
{
  static const std::size_t value = 0;
};

template <typename T> struct unvoid { typedef T type; }
template <> struct unvoid<void> { struct type { }; }
template <> struct unvoid<const void> { struct type { }; }

}  //namespace container_detail {
}  //namespace container {
}  //namespace boost {

#ifdef   //ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
AI Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mitiame.mitia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. AI Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(asc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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- implemented specific strategy or algorithm e.g. intersections
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and comments are changed accordingly.
Index: boost/mpl/print.hpp
#if defined(__MWERKS__)  
   , aux::print_base
-#endif
+#endif

#if defined(BOOST_MSVC)
   enum { n = sizeof(T) + -1 };
#elif defined(__MWERKS__)
   void f(int);
-#else
-    enum {
-        n =
-# if defined(__EDG_VERSION__)
-           aux::dependent_unsigned<T>::value > -1
-# else
-           sizeof(T) > -1
-# endif
-    };
-#endif
+#elif defined(__EDG_VERSION__)
+    enum { n = aux::dependent_unsigned<T>::value > -1 };
+#elif defined(BOOST_GCC)
+    enum { n1 };
+    enum { n2 };
+    enum { n = n1 != n2 };
+#else
+    enum { n = sizeof(T) > -1 };
+#endif

#endif

#if defined(BOOST_MSVC)
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Boost.Geometry (aka GGL, Generic Geometry Library)

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*/

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 */

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f){}
private:
split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href=" << (p.root / p.file).string() << ">
" << p.file.string() << "</a>";
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
    j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output."
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os <<
"<!DOCTYPE HTML PUBLIC \"/-//W3C//DTD HTML 4.0 Transitional//EN\">\n"
"<html><n"
"<head><n"
"<title>Boost Licence Dependency Information";
    if(m_module_list.size() == 1)
    {
        os << " for " << *(m_module_list.begin());
    }
"<h1>
Boost Licence Dependency Information
</h1>

if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

os << 
"</h1>

"<h2>Contents</h2>
"<pre>
<a href="#input">Input Information</a>

if(!m_bsl_summary_mode)
    os << " <a href="#summary">Licence Summary</a>

os << " <a href="#details">Licence Details</a>

while(i != j)
{
    // title:
    os << " <a href="#files">Files with no recognised license</a>

    " << licenses.first[i->first].license_name << "</a>
";
    ++i;
}

os << " <a href="#files">Files with no recognised license</a>

" << licenses.first[i->first].license_name << "</a>
";


os << " <a href="#files">Files with no recognised copyright holder</a>

if(!m_bsl_summary_mode)
{
    os << "Moving to the Boost Software License...

    " << licenses.first[i->first].license_name << "Moved to the Boost Software License</a>

} else

os << " <a href="#files">Files with no recognised copyright holder</a>

" << licenses.first[i->first].license_name << "File Dependency Information</a>

";</n} else

os << "The following files were scanned for boost dependencies:<br>

";}
The following Boost modules were checked:

```

os << "<P>The following Boost modules were checked:<BR>

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os << *si << "<BR>
    ++si;
}

os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></p>";
```

// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex(
    "^[[:blank:]]*#\[":blank:":define\[":blank:":BOOST_VERSION\[":blank:":+(\d+)]\);
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 100 << "." << version % 100 << "</p>\n";
}

// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    // start with the summary:
    //
    os << "<a name="\summary\"></a><h2>Licence Summary</h2>
    while(i != j)
    {
        // title:
        os << "<h3>" << licenses.first[i->first].license_name << "</h3>\n";
        // license text:
        os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        // Copyright holders:
        os << "<p>This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files <a href="#" make_link_target(licenses.first[i->first].license_name) << ">
(see details)</a>";
```
// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details"></a><h2>Licence Details</h2>
{
    // title:
os << "&lt;H3&gt;&lt;A name="" &lt; make_link_target(licenses.first[i-&gt;first].license_name) &lt; "\&gt;&lt;A&gt;" &lt; licenses.first[i-&gt;first].license_name &lt; "&lt;/H3&gt;
    // license text:
os << "&lt;BLOCKQUOTE&gt;" &lt; licenses.first[i-&gt;first].license_text &lt; "&lt;/BLOCKQUOTE&gt;";
if(!m_bsl_summary_mode || (license_index >= 3))
{
    // Copyright holders:
os << "&lt;P&gt;This license is used by the following &lt; i-&gt;second.authors.size() &lt; " copyright holders:&lt;/P&gt;&lt;BLOCKQUOTE&gt;&lt;P&gt;";
    std::set&lt;std::string&gt;::const_iterator x, y;
x = i-&gt;second.authors.begin();
y = i-&gt;second.authors.end();
while(x != y)
{
    os &lt;&lt; *x &lt;&lt; "&lt;BR&gt;\n";
    ++x;
}
os &lt;&lt; "&lt;/P&gt;&lt;/BLOCKQUOTE&gt;\n";
    // Files using this license:
os &lt;&lt; "&lt;P&gt;This license applies to the following &lt; i-&gt;second.files.size() &lt; " files:&lt;/P&gt;&lt;/BLOCKQUOTE&gt;&lt;P&gt;";
    std::set&lt;fs::path, path_less&gt;::const_iterator m, n;
m = i-&gt;second.files.begin();
n = i-&gt;second.files.end();
while(m != n)
{
    os &lt;&lt; split_path(m_boost_path, *m) &lt;&lt; "&lt;br&gt;\n";
    ++m;
}
os &lt;&lt; "&lt;/P&gt;&lt;/BLOCKQUOTE&gt;\n";
}
else
{
This license is used by "<< i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
++license_index;
++i;
}
//
// Output list of files not found to be under license control:
//
os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2><a>Files With No Recognisable Licence</a></h2>\n"
"<P>The following " << m_unknown_licenses.size() << " files had no recognisable license information:\n<P><BLOCKQUOTE><P>
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
  os << split_path(m_boost_path, *i2) << "<br>\n";
  ++i2;
}
os << "</P></BLOCKQUOTE>";
//
// Output list of files with no found copyright holder:
//
os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2><a>Files With No Recognisable Copyright Holder</a></h2>\n"
"<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright holder:\n<P><BLOCKQUOTE><P>
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
  os << split_path(m_boost_path, *i2) << "<br>\n";
  ++i2;
}
os << "</P></BLOCKQUOTE>";
if(!m_bsl_summary_mode)
{
  //
  // Output list of files that have been moved over to the Boost
  // Software License, along with enough information for human
  // verification.
  //
os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software License</h2><a>Files that can be automatically converted to the Boost Software License</a></h2>\n"
  "<P>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:\n<P>\n";
  if (!m_converted_to_bsl.empty())
  {
  }}
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;

conv_iterator i = m_converted_to_bsl.begin(),
ie = m_converted_to_bsl.end();

int file_num = 1;
while (i != ie)
{
    os << "<P>[
        " << file_num << " ] File: <tt>" << split_path(m_boost_path, i->first)
        " <tt><br>\n        <td><pre>
    " << i->second.first << " </pre>\n        <td><pre>
    " << i->second.second << " </pre>\n        <tr><table>\n    ";
    ++i;
    ++file_num;
}

// Output list of files that could be moved over to the Boost Software License

//
// Output list of files that could be moved over to the Boost Software License
//
// os << "\n\n";

// Output list of files that can NOT be moved over to the Boost Software License
//
// os << "\n\n";

// Output list of authors that we need permission for to move to the BSL
//
// os << "\n\n";
"<p>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>.</p>

```cpp
std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
           std::ostream_iterator<std::string>(os, "\n\n"));

os << "</p></BLOCKQUOTE>
"
```

// output a table of copyright information:

```cpp
os << "<H2><a name="copyright">Copyright Holder Information</a></H2><table border="1">
```

```cpp
std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << "</td><td>";
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
    efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << " ";
        ++fi;
    }
    os << "</td></tr><\n"
    ++ad;
}
```

```cpp
os << "</table>\n"
```

// output file dependency information:

```cpp
os << "<H2><a name="depend">File Dependency Information</a></H2><BLOCKQUOTE><pre>
```

```cpp
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
           ::const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin(),
        ie = m_converted_to_bsl.end();
while(i != ie)
{
    bad_paths.insert(i->first);
    ++i;
}
fi = bad_paths.begin();
efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P>\n";
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
        while(true)
        {
            os << " -> ";
            if(fs::exists(m_boost_path / dep->second))
                os << split_path(m_boost_path, dep->second);
            else if(fs::exists(dep->second))
                os << split_path(fs::path(), dep->second);
            else
                os << dep->second.string();
            if(seen_deps.find(dep->second) != seen_deps.end())
            {
                os << " <I>(Circular dependency!)</I>";
                break; // circular dependency!!!
            }*
        }*
    seen_deps.insert(dep->second);
    last_dep = dep;
    dep = m_dependencies.find(dep->second);
    if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
        break;
    os << "\n";
    ++fi;
}
os << "</pre></BLOCKQUOTE>\n";

os << "</body></html>";
if(!os)
{
    std::string msg("Error writing to ");
msg += m_dest_path.string();
msg += ".
std::runtime_error e(msg);
boost::throw_exception(e);
}

</html>

<title>MPL Interoperability</title>
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<link rel="prev" href="intrinsics.html" title="Support for Compiler Intrinsics">
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<td align="center"><a href="../../../libs/libraries.htm">Libraries</a></td>
<td align="center"><a href="http://www.boost.org/users/people.html">People</a></td>
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<td align="center"><a href="../../../more/index.htm">More</a></td>
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<div class="section boost_typetraits_mpl">
<div class="titlepage">
<div><div><h2 class="title" style="clear: both">
<a name="boost_typetraits.mpl"></a><a class="link" href="mpl.html" title="MPL Interoperability">MPL Interoperability</a></h2></div></div></div>
<p>All the value based traits in this library conform to MPL's requirements for an integral constant type that includes a number of rather intrusive workarounds for broken compilers.</p>
<p>Purely as an implementation detail, this means that <code class="computeroutput">true_type</code>
inherits from `<a href="/libs/mpl/doc/refmanual/bool.html" target="_top">boost::mpl::true_</a>`, `<a href="/libs/mpl/doc/refmanual/bool.html" target="_top">false_type</a>`, `<a href="/reference/integral_constant.html" target="_top">integral_constant</a>`

and `<a href="/reference/integral_constant.html" target="_top">integral_constant</a>`

(provided `<code class="computeroutput">T</code>` is not `<code class="computeroutput">bool</code>`)
1.1282.1 Available under license:

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Version 3, 29 June 2007

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Julian Seward, jseward@bzip.org
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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfff2bb5bb6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>
</xsl:stylesheet>
1.1299 xml-api 1.4.01

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The actual classes of The Simple API for CSS (SAC) came from:
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http://www.w3.org/2002/06/sacjava-1.3.zip

The actual DOM Java Language Binding classes for SMIL came from:
http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/
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http://www.w3.org/TR/SVG11/java.html

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On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:
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> I would want to add testregex.c and the related *.dat files to the uClibc
testsuite. uClibc is licensed under LGPL v2.1. I haven't found any
> licensing related info on testregex.

> Is it allowed to use the code there, or should I accomodate the testsuite
to download the needed files from the original site each time it is ran?

> Thanks, Peter

> --
> Peter S. Mazinger <ps dot m at gmx dot net>       ID: 0xA5F059F2
> Key fingerprint = 92A4 31E1 56BC 3D5A 2D08  BB6E C389 975E A5F0 59F2
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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006

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1.1312 docker-ce-cli 19.03.2-3.el7

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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Data model artifacts for Prometheus.

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package licensing

import {
  "context"
  "crypto/hmac"
  "crypto/sha256"
  "encoding/base64"
  "encoding/json"
  "fmt"
  "time"

  "github.com/docker/libtrust"
  "github.com/docker/licensing/lib/errors"
  "github.com/docker/licensing/lib/go-clientlib"
  "github.com/docker/licensing/model"
}

func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {
  url := c.baseURI
  url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)

  license := new(model.IssuedLicense)
  if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
    return nil, err
  }

  return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
  keyID := license.KeyID
  privateKey := license.PrivateKey

  authorization, err := c.getAuthorization(ctx, license)
  if err != nil {
    return nil, err
  }

  // TODO: Mason - replace this parseJWS with a non libtrust lib
  signature, err := libtrust.ParseJWS(authorization)
  if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
}}
"key_id": keyID,
}, "license parse JWS failed")
}

keys, err := signature.Verify()
if err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    }, "license signature verification failed")
}

keyCnt := len(keys)
if keyCnt != 1 {
    err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
    return nil, errors.WithStack(err).With(errors.Fields{
        "key_id": keyID,
    })
}

key := keys[0]

if !c.recognizedSigningKey(key) {
    return nil, errors.New("unrecognized signing key")
}

payload, err := signature.Payload()
if err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    }, "malformed signature payload")
}

checkRes := new(model.CheckResponse)
err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    })
}
return checkRes, nil
}

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if key.KeyID() == publicKey.KeyID() {
            return true
        }
    }
    return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": license.KeyID,
        }, "decoding license authorization failed")
    }
    return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly
// formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
    tokenBytes, err := base64.URLEncoding.DecodeString(token)
    if err != nil {
        return errors.Wrap(err, errors.Fields{
            "token": token
        })
    }
    generatedToken, err := generateToken(message, privateKey)
    if err != nil {
        return errors.Wrap(err, errors.Fields{
            "token": token
        })
    }
    generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
    if err != nil {
        return errors.Wrap(err, errors.Fields{
            "token": token
        })
    }
    if !hmac.Equal(tokenBytes, generatedBytes) {
return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
}

return nil
}

// generateToken generates a hash of the message with the privateKey via the sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
    if err != nil {
        return "", errors.Wrap(err, errors.Fields{"msg": message})
    }
    h := hmac.New(sha256.New, key)
    h.Write([]byte(message))
    return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

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package model

import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed
// json blob.
type CheckResponse struct {
    Expiration    time.Time `json:"expiration"
    Token         string    `json:"token"
    MaxEngines    int       `json:"maxEngines"
    ScanningEnabled bool      `json:"scanningEnabled"
Type string `json:"licenseType"`
Tier string `json:"tier"

// IssuedLicense represents an issued license
type IssuedLicense struct {
    KeyID string `json:"key_id"
    PrivateKey string `json:"private_key"
    Authorization string `json:"authorization"
}

// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
    if l.KeyID == "" { return false, "empty key_id"
    }
    if l.PrivateKey == "" { return false, "empty private_key"
    }
    if l.Authorization == "" { return false, "empty authorization"
    }
    return true, ""
}

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package engine

import (  
    "bytes"
    "encoding/json"
    "strings"
    "testing"
    "time"
    
    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
    "gotest.tools/assert"
    is "gotest.tools/assert/cmp"
)

func TestSubscriptionContextWrite(t *testing.T) {
    cases := []struct {
        context  formatter.Context
        expected string
    }{
        // Errors
        
        formatter.Context{Format: "{{InvalidFunction}}"},
        "Template parsing error: template: :1: function "InvalidFunction" not defined
<table>
<thead>
<tr>
<th>NUM</th>
<th>OWNER</th>
<th>PRODUCT ID</th>
<th>EXPIRES</th>
<th>PRICING COMPONENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>owner1</td>
<td>productid1</td>
<td>2020-01-01 10:00:00 +0000 UTC</td>
<td>compstring</td>
</tr>
<tr>
<td>2</td>
<td>owner2</td>
<td>productid2</td>
<td>2020-01-01 10:00:00 +0000 UTC</td>
<td>compstring</td>
</tr>
</tbody>
</table>

---

<table>
<thead>
<tr>
<th>1: License Name: name1</th>
<th>Quantity: 10 nodes</th>
<th>Expiration date: 2020-01-01</th>
</tr>
</thead>
<tbody>
<tr>
<td>2: License Name: name2</td>
<td>Quantity: 20 nodes</td>
<td>Expiration date: 2020-01-01</td>
</tr>
</tbody>
</table>

---

<table>
<thead>
<tr>
<th>OWNER</th>
</tr>
</thead>
<tbody>
<tr>
<td>owner1</td>
</tr>
<tr>
<td>owner2</td>
</tr>
</tbody>
</table>

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<table>
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<tr>
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<tbody>
<tr>
<td>owner1</td>
</tr>
<tr>
<td>owner2</td>
</tr>
</tbody>
</table>

---

**Raw Format**

```
lifetime: id1
  name: name1
  owner: owner1
  components: compstring

lifetime: id2
  name: name2
  owner: owner2
  components: compstring
```
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num: 1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID:  "id1",
                Name:  "name1",
                ProductID: "productid1",
                Expires:  &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name:  "nodes",
                        Value: 10,
                    },
                },
                ComponentsString: "compstring",
            },
            {
                Num: 2,
                Owner: "owner2",
                Subscription: model.Subscription{
                    ID:  "id2",
                    Name:  "name2",
                    ProductID: "productid2",
                    Expires:  &expiration,
                    PricingComponents: model.PricingComponents{
                        &model.SubscriptionPricingComponent{
                    },
                },
                ComponentsString: "compstring",
            },
        },
    }
}
out := &bytes.Buffer{ }
testcase.context.Output = out
err := SubscriptionsWrite(testcase.context, subscriptions)
if err != nil {
    assert.Error(t, err, testcase.expected)
} else {
    assert.Check(t, is.Equal(testcase.expected, out.String()))
}

func TestSubscriptionContextWriteJSON(t *testing.T) {
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
subscriptions := []licenseutils.LicenseDisplay{
    {Num: 1,
     Owner: "owner1",
     Subscription: model.Subscription{
         ID: "id1",
         Name: "name1",
         ProductID: "productid1",
         Expires: &expiration,
         PricingComponents: model.PricingComponents{
             &model.SubscriptionPricingComponent{
                 Name: "nodes",
                 Value: 10,
             },
         },
         ComponentsString: "compstring",
     },
    },
    {Num: 2,
     Owner: "owner2",
     Subscription: model.Subscription{
         ID: "id2",
         Name: "name2",
         ProductID: "productid2",
         Expires: &expiration,
         PricingComponents: model.PricingComponents{
             &model.SubscriptionPricingComponent{
                 Name: "nodes",
                 Value: 20,
             },
         },
         ComponentsString: "compstring",
     },
    },
}
&model.SubscriptionPricingComponent{
    Name: "nodes",
    Value: 20,
},
,
},

ComponentsString: "compstring",
},
}

expectedJSONs := []map[string]interface{}{
    {
        "Owner": "owner1",
        "ComponentsString": "compstring",
        "Expires": "2020-01-01T10:00:00Z",
        "DockerID": "",
        "Eusa": nil,
        "ID": "id1",
        "Start": nil,
        "Name": "name1",
        "Num": float64(1),
        "PricingComponents": []interface{}{
            map[string]interface{}{
                "name": "nodes",
                "value": float64(10),
            },
        },
        "ProductID": "productid1",
        "ProductRatePlan": "",
        "ProductRatePlanID": "",
        "State": "",
        "Summary": "License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01",
    },
    {
        "Owner": "owner2",
        "ComponentsString": "compstring",
        "Expires": "2020-01-01T10:00:00Z",
        "DockerID": "",
        "Eusa": nil,
        "ID": "id2",
        "Start": nil,
        "Name": "name2",
        "Num": float64(2),
        "PricingComponents": []interface{}{
            map[string]interface{}{
                "name": "nodes",
                "value": float64(20),
            },
        },
    },
}
"ProductID": "productid2",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name2\nQuantity: 20 nodes\nExpiration date: 2020-01-01",
},
\}

out := &bytes.Buffer{}
err := SubscriptionsWrite(formatter.Context{Format: "{{json .}}", Output: out}, subscriptions)
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
    var m map[string]interface{}
    if err := json.Unmarshal([]byte(line), &m); err != nil {
t.Fatal(err)
    }
    assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}

func TestSubscriptionContextWriteJSONField(t *testing.T) {
    subscriptions := []licenseutils.LicenseDisplay{
        {Num: 1, Owner: "owner1"},
        {Num: 2, Owner: "owner2"},
    }
    out := &bytes.Buffer{}
    if err != nil {
t.Fatal(err)
    }
    for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
        var s string
        if err := json.Unmarshal([]byte(line), &s); err != nil {
t.Fatal(err)
        }
        assert.Check(t, is.Equal(subscriptions[i].Owner, s))
    }
}

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package engine

import (
    "time"
    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
)

const (const (defaultSubscriptionsTableFormat = "table
    {{.Num}}	{{.Owner}}	{{.ProductID}}	{{.Expires}}	{{.ComponentsString}}"
defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}""
numHeader               = "NUM"
ownerHeader             = "OWNER"
licenseNameHeader       = "NAME"
idHeader                = "ID"
dockerIDHeader          = "DOCKER ID"
productIDHeader         = "PRODUCT ID"
productRatePlanHeader   = "PRODUCT RATE PLAN"
productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
startHeader             = "START"
expiresHeader           = "EXPIRES"
stateHeader             = "STATE"
eusaHeader              = "EUSA"
pricingComponentsHeader = "PRICING COMPONENTS""
// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
    switch source {
    case formatter.TableFormatKey:
        if quiet {
            return defaultSubscriptionsQuietFormat
        }
        return defaultSubscriptionsTableFormat
    case formatter.RawFormatKey:
        if quiet {
            return `license: {{.ID}}`
        }
        return `license: {{.ID}}
name: {{.Name}}
owner: {{.Owner}}
components: {{.ComponentsString}}
`
    }
    return formatter.Format(source)
}

// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
    render := func(format func(subContext formatter.SubContext) error) error {
        for _, sub := range subs {
            licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
            if err := format(licenseCtx); err != nil {
                return err
            }
        }
        return nil
    }
    licenseCtx := licenseContext{}
    licenseCtx.Header = map[string]string{
        "Num": numHeader,
        "Owner": ownerHeader,
        "Name": licenseNameHeader,
        "ID": idHeader,
        "DockerID": dockerIDHeader,
        "ProductID": productIdHeader,
        "ProductRatePlan": productRatePlanHeader,
        "ProductRatePlanID": productRatePlanIDHeader,
        "Start": startHeader,
        "Expires": expiresHeader,
        "State": stateHeader,
        "Eusa": eusaHeader,
        "ComponentsString": pricingComponentsHeader,
    }
    return ctx.Write(&licenseCtx, render)
}
type licenseContext struct {
    formatter.HeaderContext
    trunc bool
    l     licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
    return formatter.MarshalJSON(c)
}

func (c *licenseContext) Num() int {
    return c.l.Num
}

func (c *licenseContext) Owner() string {
    return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {
    return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
    return c.l.String()
}

func (c *licenseContext) Name() string {
    return c.l.Name
}

func (c *licenseContext) ID() string {
    return c.l.ID
}

func (c *licenseContext) DockerID() string {
    return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
    return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
    return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}
func (c *licenseContext) Start() *time.Time {
return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
return c.l.Expires
}

func (c *licenseContext) State() string {
return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
// Dereference the pricing component pointers in the pricing components
// so it can be rendered properly with the template formatter

var ret []model.SubscriptionPricingComponent
for _, spc := range c.l.PricingComponents {
if spc == nil {
continue
}
ret = append(ret, *spc)
}
return ret
}

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Additional -

File: PSReadLine

https://github.com/Izybkr/PSReadLine

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----------------------------------------------
File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershellss-built-in-h

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1.1314 xerces-c vmware-tools-9.10.0-1

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>>> freebsd-1.72
>>> gotourl function by stuart patterson-none
>>> icu-data-4.4-1
>>> icu4c-4.4.1
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>>> iconv-1.9.2
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>>> freebsd-6.3
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>>> libdnet-1.11
>>> libdnet-1.11-1
>>> libffi-3.0.9
>>> libpng-1.2.50
>>> libview-0.7.0
>>> libxdr-openbsd-4.3
>>> libxml2-2.8.0-1
>>> pscache-1.4.4
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>>> pvscsi-none
>>> vmblock-1.0.0
>>> vmblock-none
>>> vmci-1.0.0
>>> vmci-9.6.1.0
>>> vmhgfs-1.0.0
>>> vmhgfs-none
>>> vmmemctl-1.0.0
>>> vmsync-none
>>> vmxnet-1.0.0
>>> vmxnet-none
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>>> glibmm-2.24.0
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>>> cairomm-1.8.2
>>> gail-1.22.3
>>> glib-2.16.4
>>> glib-2.24.2-1
>>> glib-2.34.0
>>> glibmm-2.16.4
>>> gtk+-2.12.11
>>> gtk+-2.20.0
>>> gtk+-2.12.7
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kmodtool - Helper script for building kernel module RPMs

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2009-10-04, guwi17: modified and extended to meet uBLAS' needs

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>>> freebsd-1.72

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Last Updated: August 9, 2011.

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pango-1.30.0\pango-1.30.0.tar.xz\pango-1.30.0.tar\pango-1.30.0\modules\indic\indic-ot.c

Pango
indic-ot.c:

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[VMWare ships the following subcomponents from freebsd 6.3:

    libICE.so.6
    libSM.so.6
    libXft.so.2
    libXinerama.so.1
    libXrandr.so.2
    libXrender.so.1
    libatk-1.0.so.0
    libatkmkm-1.6.so.1
    libcairo.so.2
    libcairo-1.0.so.1
    libconf
    libdnet.so.1
    libexpat.so.6
    libfontconfig.so.1
    libfreetype.so.9
    libgcc_s.so.1


libgdk-x11-2.0.so.0
libgdk_pixbuf-2.0.so.0
libgdk_pixbuf_xlib-2.0.so.0
libgdkmm-2.4.so.1
libglib-2.0.so.0
libglibmm-2.4.so.1
libglibmm_generate_extra_defs-2.4.so.1
libgmodule-2.0.so.0
libgobject-2.0.so.0
libgthread-2.0.so.0
libgtk-x11-2.0.so.0
libgtkmm-2.4.so.1
libiconv.so.3
libintl.so.8
libpango-1.0.so.0
libpangocairo-1.0.so.0
libpangoft2-1.0.so.0
libpangomm-1.4.so.1
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libpixman-1.so.9
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libsigtc-2.0.so.0
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Pango
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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

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The hypothetical commands `show w' and `show c' should show the appropriate
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Version 2.1, February 1999

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the version number 2.1.]

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
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a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

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

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

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Version 2, June 1991

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Preamble

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

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code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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

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

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

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

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

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

The precise terms and conditions for copying, distribution and
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"work based on the library" and a "work that uses the library". The
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works together with the library.

Note that it is possible for a library to be covered by the ordinary
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A "library" means a collection of software functions and/or data
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"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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1.1324 policycoreutils-python 1.0.17-2.el7

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

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medium customarily used for software interchange.

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

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

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

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

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

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during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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

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

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

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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1.1330 curl 7.29.0-51.el7
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License Mixing with apps, libcurl and Third Party Libraries

====================================================================
libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that GPL[1]-licensed code is not allowed to be linked with code licensed under the Original BSD license (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an exception[2]. This particular problem was addressed when the Modified BSD license was created, which does not have the announcement clause that collides with GPL.

libcurl http://curl.haxx.se/docs/copyright.html

Uses an MIT (or Modified BSD)-style license that is as liberal as possible. Some of the source files that deal with KRB4 have Original BSD-style announce-clause licenses. You may not distribute binaries with krb4-enabled libcurl that also link with GPL-licensed code!

OpenSSL http://www.openssl.org/source/license.html

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL’s licensing is a problem for you, consider using GnuTLS or yassl instead.

GnuTLS http://www.gnutls.org/

(May be used for SSL/TLS support) Uses the LGPL[3] license. If this is a problem for you, consider using OpenSSL instead. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

yassl http://www.yassl.com/

(May be used for SSL/TLS support) Uses the GPL[1] license. If this is a problem for you, consider using OpenSSL or GnuTLS instead.

NSS http://www.mozilla.org/projects/security/pki/nss/
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axTLS   http://axtls.sourceforge.net/

(May be used for SSL/TLS support) Uses a Modified BSD-style license.

c-ares http://daniel.haxx.se/projects/c-ares/license.html

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

MIT Kerberos http://web.mit.edu/kerberos/www/dist/

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

Heimdal http://www.pdc.kth.se/heimdal/

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

GNU GSS http://www.gnu.org/software/gss/

(May be used for GSS support) GNU GSS is GPL licensed. Note that you may not distribute binary curl packages that uses this if you build curl to also link and use any Original BSD licensed libraries!

fbopenssl
(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

libidn http://josefsson.org/libidn/

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL is a variation of GPL with slightly less aggressive "copyleft". This license requires more requirements to be met when distributing binaries, see the license for details. Also note that if you distribute a binary that includes this library, you must also include the full LGPL license text. Please properly point out what parts of the distributed package that the license addresses.

OpenLDAP http://www.openldap.org/software/release/license.html

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2 http://www.libssh2.org/

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

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1.1331 findutils 4.5.11 6.el7

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

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0. Definitions.

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"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

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A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

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the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
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the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
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* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-jar/com/thoughtworks/xstream/converters/basic/IntConverter.java

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* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-
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* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-
  jar/com/thoughtworks/xstream/converters/collections/TreeMapConverter.java

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  jar/com/thoughtworks/xstream/io/xml/AbstractDocumentReader.java
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  jar/com/thoughtworks/xstream/converters/ConverterMatcher.java
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  jar/com/thoughtworks/xstream/converters/extended/CurrencyConverter.java
* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-
  jar/com/thoughtworks/xstream/converters/extended/SqlTimeConverter.java
* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-
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  jar/com/thoughtworks/xstream/io/path/PathTracker.java
* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-
  jar/com/thoughtworks/xstream/io/xml/XppDomWriter.java
* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-
  jar/com/thoughtworks/xstream/io/xml/DomReader.java
* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-
  jar/com/thoughtworks/xstream/io/xml/XppDomReader.java
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jar/com/thoughtworks/xstream/io/xml/Xpp3Driver.java
* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-
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* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1.jar/com/thoughtworks/xstream/security/ForbiddenClassException.java
* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1.jar/com/thoughtworks/xstream/security/AnyTypePermission.java
* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1.jar/com/thoughtworks/xstream/security/NoTypePermission.java
* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1.jar/com/thoughtworks/xstream/security/TypePermission.java
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* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-jar/com/thoughtworks/xstream/io/binary/BinaryStreamWriter.java

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* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-
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* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1.jar/com/thoughtworks/xstream/converters/time/YearConverter.java
* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1.jar/com/thoughtworks/xstream/converters/time/OffsetTimeConverter.java

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* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1.jar/com/thoughtworks/xstream/converters/time/InstantConverter.java
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* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-
jar/com/thoughtworks/xstream/io/copy/HierarchicalStreamCopier.java
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* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-
jar/com/thoughtworks/xstream/converters/extended/CharsetConverter.java
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jar/com/thoughtworks/xstream/io/WriterWrapper.java
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  jar/com/thoughtworks/xstream/converters/extended/GregorianCalendarConverter.java
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-
  jar/com/thoughtworks/xstream/converters/ErrorWritingException.java
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  jar/com/thoughtworks/xstream/core/ClassLoaderReference.java
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* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-
  jar/com/thoughtworks/xstream/converters/reflection/XStream12FieldKeySorter.java
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  jar/com/thoughtworks/xstream/core/ReferenceByXPathMarshaller.java
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  jar/com/thoughtworks/xstream/converters/enums/EnumSetConverter.java
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/*
jar/com/thoughtworks/xstream/converters/extended/ToAttributedValueConverter.java
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* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-jar/com/thoughtworks/xstream/converters/collections/SingletonCollectionConverter.java
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* jar/com/thoughtworks/xstream/io/path/package.html
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* jar/com/thoughtworks/xstream/converters/time/PeriodConverter.java
* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-
* jar/com/thoughtworks/xstream/converters/time/MonthDayConverter.java
* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-
* jar/com/thoughtworks/xstream/converters/time/DurationConverter.java
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* jar/com/thoughtworks/xstream/security/InterfaceTypePermission.java
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  jar/com/thoughtworks/xstream/converters/time/JapaneseEraConverter.java
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  jar/com/thoughtworks/xstream/mapper/SystemAttributeAliasingMapper.java
* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-
  jar/com/thoughtworks/xstream/mapper/AbstractAttributeAliasingMapper.java
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  jar/com/thoughtworks/xstream/io/ReaderWrapper.java
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  jar/com/thoughtworks/xstream/converters/basic/UUIDConverter.java
* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-
  jar/com/thoughtworks/xstream/converters/basic/StringBuilderConverter.java
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  jar/com/thoughtworks/xstream/converters/reflection/LambdaConverter.java
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  jar/com/thoughtworks/xstream/converters/enumToStrings/EnumToStringConverter.java
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  jar/com/thoughtworks/xstream/io/path/PathTrackingReader.java
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  jar/com/thoughtworks/xstream/io/xml/StaxDriver.java
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jar/com/thoughtworks/xstream/annotations/XStreamOmitField.java

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jar/com/thoughtworks/xstream/core/util/Primitives.java

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* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-jar/com/thoughtworks/xstream/io/json/JettisonStaxWriter.java

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* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-
  jar/com/thoughtworks/xstream/mapper/LocalConversionMapper.java
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  jar/com/thoughtworks/xstream/converters/extended/PathConverter.java
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* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-jar/com/thoughtworks/xstream/core/TreeMarshallingStrategy.java
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  jar/com/thoughtworks/xstream/io/xml/Dom4JWriter.java
* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-
  jar/com/thoughtworks/xstream/io/xml/xppdom/Xpp3DomBuilder.java
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  jar/com/thoughtworks/xstream/converters/javabean/NativePropertySorter.java
* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-
  jar/com/thoughtworks/xstream/converters/javabean/PropertySorter.java
* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-
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* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-jar/com/thoughtworks/xstream/io/xml/DomWriter.java
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-
  jar/com/thoughtworks/xstream/core/util/ISO8601JavaTimeConverter.java
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  jar/com/thoughtworks/xstream/mapper/ImmutableTypesMapper.java
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  jar/com/thoughtworks/xstream/io/xml/WstxDriver.java
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  jar/com/thoughtworks/xstream/converters/reflection/PureJavaReflectionProvider.java

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  jar/com/thoughtworks/xstream/io/xml/QNameMap.java
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  jar/com/thoughtworks/xstream/io/xml/XomWriter.java
* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-
  jar/com/thoughtworks/xstream/io/xml/JDomWriter.java
* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-
  jar/com/thoughtworks/xstream/io/xml/JDomReader.java
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  jar/com/thoughtworks/xstream/core/util/XmlHeaderAwareReader.java
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jar/com/thoughtworks/xstream/io/xml/BEAStaxDriver.java

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* Created on 14. August 2004 by Joe Walnes
*/
/**
/**
* A SAX { @link org.xml.sax.XMLReader parser} that acts as an XStream
* [ @link com.thoughtworks.xstream.io.HierarchicalStreamWriter} to enable direct generation of a
* SAX event flow from the XStream serialization of a list of list of Java objects.
* <p>
* As a
* custom SAX parser, this class ignores the arguments of the two standard parse methods ({ @link 
#parse(java.lang.String) }
* and { @link parse(org.xml.sax.InputSource)) but relies on a proprietary SAX property
* [ @link #SOURCE_OBJECT_LIST_PROPERTY} to define the list of objects to serialize.
* </p>
* <p>
* Configuration of this SAX parser is achieved through the standard
* [ @link #setProperty SAX property mechanism]. While specific setter methods require direct
* access to the parser instance, SAX properties support configuration settings to be propagated
* through a chain of { @link org.xml.sax.XMLFilter filters} down to the underlying parser
* object.
* </p>
* <p>
* This mechanism shall be used to configure the
* [ @link #SOURCE_OBJECT_LIST_PROPERTY objects to be serialized} as well as the
* [ @link #CONFIGURED_XSTREAM_PROPERTY XStream facade].
* </p>
* */
* @author Laurent Bihanic
*/
/**
Sets the value of a property.

The property name is any fully-qualified URI. It is possible for an XMLReader to recognize a property name but to be unable to set its value.

XMLReaders are not required to recognize setting any specific property names, though a core set is provided with SAX2.

Some property values may be immutable or mutable only in specific contexts, such as before, during, or after a parse.

This method is also the standard mechanism for setting extended handlers.

Note: This implementation only supports two (proprietary) properties:  
- CONFIGURED_XSTREAM_PROPERTY
- SOURCE_OBJECT_LIST_PROPERTY

- param name the property name, which is a fully-qualified URI.
- param value the requested value for the property.
- throws SAXNotRecognizedException when the XMLReader does not recognize the property name.
- throws SAXNotSupportedException when the XMLReader recognizes the property name but cannot set the requested value.

Parses an XML document from a system identifier (URI).

This method is a shortcut for the common case of reading a document from a system identifier. It is the exact equivalent of the following:

```
parse(new InputSource(systemId));
```

If the system identifier is a URL, it must be fully resolved by the application before it is passed to the parser.

Note: As a custom SAX parser, this class ignores the systemId argument of this method and relies on the proprietary SAX property.
 {@link #SOURCE_OBJECT_LIST_PROPERTY}) to define the list of
 objects to serialize.</p>
 *
 *
 @param systemId the system identifier (URI).
 @throws SAXException Any SAX exception, possibly wrapping
 another exception.
 @see #parse(org.xml.sax.InputSource)
 */

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jar/com/thoughtworks/xstream/io/binary/BinaryStreamReader.java
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jar/com/thoughtworks/xstream/io/binary/BinaryStreamDriver.java
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jar/com/thoughtworks/xstream/converters/collections/AbstractCollectionConverter.java
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  jar/com/thoughtworks/xstream/converters/reflection/FieldUtil14.java
* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-
  jar/com/thoughtworks/xstream/converters/reflection/FieldUtil15.java

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jar/com/thoughtworks/xstream/core/util/FastField.java
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jar/com/thoughtworks/xstream/converters/time/ChronologyConverter.java
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jar/com/thoughtworks/xstream/converters/javabean/JavaBeanProvider.java
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jar/com/thoughtworks/xstream/converters/time/OffsetDateTimeConverter.java
* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-
jar/com/thoughtworks/xstream/converters/time/LocalDateTimeConverter.java
* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-
jar/com/thoughtworks/xstream/converters/time/ZonedDateTimeConverter.java
* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-
jar/com/thoughtworks/xstream/converters/time/LocalTimeConverter.java
* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-
jar/com/thoughtworks/xstream/converters/time/LocalDateConverter.java
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* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1.4.12-sources-1.jar/com/thoughtworks/xstream/core/StringCodec.java
* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1.4.12-sources-1.jar/com/thoughtworks/xstream/core/util/Base64JavaUtilCodec.java
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jar/com/thoughtworks/xstream/converters/basic/FloatConverter.java
* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-
jar/com/thoughtworks/xstream/converters/basic/ShortConverter.java
* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-
jar/com/thoughtworks/xstream/converters/basic/DoubleConverter.java
* /opt/ws_local/PERMITS_SQL/1049165696_1591416649.99/0/xstream-1-4-12-sources-1-
jar/com/thoughtworks/xstream/converters/basic/CharConverter.java
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  jar/com/thoughtworks/xstream/converters/UnmarshallingContext.java
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File: PSReadLine

https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.1354 net-snmp-utils 5.7.2 37.el7

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Additional -

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File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PackageManagement

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Additional -

File: PSReadLine

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https://github.com/Izybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.1364 openssl 1.0.2n

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1.1365 system-runtime-interopservices-runtimeinformation 4.700.19.55104

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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package engine

import (  
    "time"
    
    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
)

const (  
    defaultSubscriptionsTableFormat = "table  
        {{.Num}}	{{.Owner}}	{{.ProductID}}	{{.Expires}}	{{.ComponentsString}}"
    defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"
    numHeader               = "NUM"  
    ownerHeader             = "OWNER"  
    licenseNameHeader       = "NAME"  
    idHeader                = "ID"  
    dockerIDHeader          = "DOCKER ID"  
    productIDHeader         = "PRODUCT ID"  
    productRatePlanHeader   = "PRODUCT RATE PLAN"  
    productRatePlanIDHeader = "PRODUCT RATE PLAN ID"  
    startHeader             = "START"  
    expiresHeader           = "EXPIRES"  
    stateHeader             = "STATE"  
    eusaHeader              = "EUSA"  
    pricingComponentsHeader = "PRICING COMPONENTS"
)

// NewSubscriptionsFormat returns a Format for rendering using a license Context  
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {  
    switch source {  
    case formatter.TableFormatKey:  
        if quiet {  

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limitations under the License.
return defaultSubscriptionsQuietFormat
}
return defaultSubscriptionsTableFormat

case formatter.RawFormatKey:
if quiet {
return `license: {{.ID}}`
}
return `license: {{.ID}}
name: {{.Name}}
owner: {{.Owner}}
components: {{.ComponentsString}}
`
return formatter.Format(source)

// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
render := func(format func(subContext formatter.SubContext) error) error {
for _, sub := range subs {
licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
if err := format(licenseCtx); err != nil {
return err
}
}
return nil
}
licenseCtx := licenseContext{}
licenseCtx.Header = map[string]string{
"Num": numHeader,
"Owner": ownerHeader,
"Name": licenseNameHeader,
"ID": idHeader,
"DockerID": dockerIDHeader,
"ProductID": productIdHeader,
"ProductRatePlan": productRatePlanHeader,
"ProductRatePlanID": productRatePlanIDHeader,
"Start": startHeader,
"Expires": expiresHeader,
"State": stateHeader,
"Eusa": eusaHeader,
"ComponentsString": pricingComponentsHeader,
}
return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
formatter.HeaderContext
trunc bool
l     licenseutils.LicenseDisplay
}
func (c *licenseContext) MarshalJSON() ([]byte, error) {
    return formatter.MarshalJSON(c)
}

func (c *licenseContext) Num() int {
    return c.l.Num
}

func (c *licenseContext) Owner() string {
    return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {
    return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
    return c.l.String()
}

func (c *licenseContext) Name() string {
    return c.l.Name
}

func (c *licenseContext) ID() string {
    return c.l.ID
}

func (c *licenseContext) DockerID() string {
    return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
    return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
    return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
    return c.l.Start
}
func (c *licenseContext) Expires() *time.Time {
    return c.l.Expires
}

func (c *licenseContext) State() string {
    return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
    return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
    // Dereference the pricing component pointers in the pricing components
    // so it can be rendered properly with the template formatter

    var ret []model.SubscriptionPricingComponent
    for _, spc := range c.l.PricingComponents {
        if spc == nil {
            continue
        }
        ret = append(ret, *spc)
    }
    return ret
}

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package engine

import (  
  "bytes"  
  "encoding/json"  
  "strings"  
  "testing"  
  "time"  
  "github.com/docker/cli/cli/command/formatter"  
  "github.com/docker/cli/internal/licenseutils"  
  "github.com/docker/licensing/model"  
  "gotest.tools/assert"  
  is "gotest.tools/assert/cmp"
)

func TestSubscriptionContextWrite(t *testing.T) {
  cases := []struct {
    context  formatter.Context
    expected string
  }{
    // Errors
    {
      formatter.Context(Format: "{InvalidFunction}")},
      // Template parsing error: template: :1: function "InvalidFunction" not defined
      \
    },
    {
      formatter.Context(Format: "{nil}")},
      // Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command
      \
    },
    // Table format
    {
      formatter.Context(Format: NewSubscriptionsFormat("table", false)),
      // NUM OWNER PRODUCT ID EXPIRES PRICING COMPONENTS
      1 owner1 productid1 2020-01-01 10:00:00 +0000 UTC compstring
      2 owner2 productid2 2020-01-01 10:00:00 +0000 UTC compstring
      \
    },
    {
      formatter.Context(Format: NewSubscriptionsFormat("table", true)),
      // License Name: name1Quantity: 10 nodesExpiration date: 2020-01-01
      1:License Name: name1Quantity: 10 nodesExpiration date: 2020-01-01
      2:License Name: name2Quantity: 20 nodesExpiration date: 2020-01-01
      \
    },
  }
}
},

formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
'OWNER
owner1
owner2
',
},

formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", true)},
'OWNER
owner1
owner2
',
},

// Raw Format
{
'license: id1
name: name1
owner: owner1
components: compstring

license: id2
name: name2
owner: owner2
components: compstring
',
},

formatter.Context{Format: NewSubscriptionsFormat("raw", true)},
'license: id1
license: id2
',
},
// Custom Format
{
formatter.Context{Format: NewSubscriptionsFormat("{{.Owner}}", false)},
'owner1
owner2
',
},
}

expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {

subscriptions := []licenseutils.LicenseDisplay{
    {
        Num: 1,
        Owner: "owner1",
        Subscription: model.Subscription{
            ID: "id1",
            Name: "name1",
            ProductID: "productid1",
            Expires: &expiration,
            PricingComponents: model.PricingComponents{
                &model.SubscriptionPricingComponent{
                    Name: "nodes",
                    Value: 10,
                },
            },
            ComponentsString: "compstring",
        },
    },
    {
        Num: 2,
        Owner: "owner2",
        Subscription: model.Subscription{
            ID: "id2",
            Name: "name2",
            ProductID: "productid2",
            Expires: &expiration,
            PricingComponents: model.PricingComponents{
                &model.SubscriptionPricingComponent{
                    Name: "nodes",
                    Value: 20,
                },
            },
            ComponentsString: "compstring",
        },
    },
}
out := &bytes.Buffer{
}

testcase.context.Output = out
er := SubscriptionsWrite(testcase.context, subscriptions)
if err != nil {
    assert.Error(t, err, testcase.expected)
} else {
    assert.Check(t, is.Equal(testcase.expected, out.String()))
}

func TestSubscriptionContextWriteJSON(t *testing.T) {


expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
subscriptions := []licenseutils.LicenseDisplay{

  {Num: 1,
   Owner: "owner1",
   Subscription: model.Subscription{
     ID: "id1",
     Name: "name1",
     ProductID: "productid1",
     Expires: &expiration,
     PricingComponents: model.PricingComponents{
       &model.SubscriptionPricingComponent{
         Name: "nodes",
         Value: 10,
       },
     },
   },
   ComponentsString: "compstring",
  },

  {Num: 2,
   Owner: "owner2",
   Subscription: model.Subscription{
     ID: "id2",
     Name: "name2",
     ProductID: "productid2",
     Expires: &expiration,
     PricingComponents: model.PricingComponents{
       &model.SubscriptionPricingComponent{
         Name: "nodes",
         Value: 20,
       },
     },
   },
   ComponentsString: "compstring",
  },
}

expectedJSONs := []map[string]interface{}{

  {"Owner": "owner1",
   "ComponentsString": "compstring",
   "Expires": "2020-01-01T10:00:00Z",
   "DockerID": ",",
   "Eusa": nil,
   "ID": "id1",
   "Start": nil,
   "Name": "name1",
   "Num": float64(1),
  },
"PricingComponents": []interface{}
map[string]interface{}
"name": "nodes",
"value": float64(10),
},
,
"ProductID": "productid1",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name1
Quantity: 10 nodes
Expiration date: 2020-01-01",
},
{
"Owner": "owner2",
"ComponentsString": "compstring",
"Expires": "2020-01-01T10:00:00Z",
"DockerID": "",
"Eusa": nil,
"ID": "id2",
"Start": nil,
"Name": "name2",
"Num": float64(2),
"PricingComponents": []interface{}
map[string]interface{}
"name": "nodes",
"value": float64(20),
},
,
"ProductID": "productid2",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name2
Quantity: 20 nodes
Expiration date: 2020-01-01",
},

out := &bytes.Buffer{}
err := SubscriptionsWrite(formatter.Context{Format: "{{json .}}", Output: out}, subscriptions)
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
var m map[string]interface{}
if err := json.Unmarshal([]byte(line), &m); err != nil {
t.Fatal(err)
}
assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}
}
func TestSubscriptionContextWriteJSONField(t *testing.T) {
subscriptions := []licenseutils.LicenseDisplay{
{Num: 1, Owner: "owner1"},
{Num: 2, Owner: "owner2"},
}
out := &bytes.Buffer{}
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
var s string
if err := json.Unmarshal([]byte(line), &s); err != nil {
t.Fatal(err)
}
assert.Check(t, is.Equal(subscriptions[i].Owner, s))
}
}
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

package licensing

import (
    "context"
    "crypto/hmac"
    "crypto/sha256"
    "encoding/base64"
    "encoding/json"
    "fmt"
    "time"

    "github.com/docker/libtrust"
    "github.com/docker/licensing/lib/errors"
    "github.com/docker/licensing/lib/go-clientlib"
    "github.com/docker/licensing/model"
)

func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {
    url := c.baseURI
    url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)

    license := new(model.IssuedLicense)
    if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
        return nil, err
    }

    return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
    keyID := license.KeyID
    privateKey := license.PrivateKey

    authorization, err := c.getAuthorization(ctx, license)
    if err != nil {
        return nil, err
    }

    // TODO: Mason - replace this parseJWS with a non libtrust lib
    signature, err := libtrust.ParseJWS(authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        })
    }

    return nil, nil
}
keys, err := signature.Verify()
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license signature verification failed")
}

keyCnt := len(keys)
if keyCnt != 1 {
    err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
    return nil, errors.WithStack(err).With(errors.Fields{
        "key_id": keyID,
    })
}

key := keys[0]
if !c.recognizedSigningKey(key) {
    return nil, errors.New("unrecognized signing key")
}

payload, err := signature.Payload()
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "malformed signature payload")
}

checkRes := new(model.CheckResponse)
err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    })
}

return checkRes, nil
recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise.

```go
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if key.KeyID() == publicKey.KeyID() {
            return true
        }
    }
    return false
}
```

getAuthorization returns the decoded license authorization.

```go
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": license.KeyID,
        }, "decoding license authorization failed")
    }
    return decoded, nil
}
```

The functions in this file assume that they are receiving a properly formatted private key.

checkToken performs a MAC algorithm (where token is generated by hashing the message with the private key via GenerateToken) with the purpose of authenticating the validity of both the message and the private key of the person who generated the token.

```go
func checkToken(message, token, privateKey string) error {
    tokenBytes, err := base64.URLEncoding.DecodeString(token)
    if err != nil {
        return errors.Wrap(err, errors.Fields{
            "token": token
        })
    }
    generatedToken, err := generateToken(message, privateKey)
    if err != nil {
        return errors.Wrap(err, errors.Fields{
            "token": token
        })
    }
    generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
    if err != nil {
        return errors.Wrap(err, errors.Fields{
            "token": token
        })
    }
    if !hmac.Equal(tokenBytes, generatedBytes) {
        return errors.Forbidden(errors.Fields{
            "token": token,
        }, "invalid token")
    }
    return nil
}
```
}
return nil
}
// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
key, err := base64.URLEncoding.DecodeString(privateKey)
if err != nil {
return "", errors.Wrap(err, errors.Fields{"msg": message})
}
h := hmac.New(sha256.New, key)
h.Write([]byte(message))
return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}
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package model

import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed json blob.
type CheckResponse struct {
    Expiration time.Time `json:"expiration"
    Token string `json:"token"
    MaxEngines int `json:"maxEngines"
    ScanningEnabled bool `json:"scanningEnabled"
Type string `json:"licenseType"`
Tier string `json:"tier"

// IssuedLicense represents an issued license
type IssuedLicense struct {
    KeyID     string `json:"key_id"`
    PrivateKey string `json:"private_key"`
    Authorization string `json:"authorization"`
}

// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
    if l.KeyID == "" {
        return false, "empty key_id"
    }
    if l.PrivateKey == "" {
        return false, "empty private_key"
    }
    if l.Authorization == "" {
        return false, "empty authorization"
    }
    return true, ""
}

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1.1371 python-dateutil 1.5 7.el7

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

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

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

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1.1373 ant-junit 1.6.5

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File: PSReadLine
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File: Hashtables from ConvertFrom-json
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