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Text Part Number: 78EE117C99-1369099148

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: \$Id: fdl.key,v 1.4 2001/08/21 20:55:06 tom Exp \$

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\$endform

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\$include

\$init

\$page

\$rem:Comment

\$scs

\$scroll

\$state

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1.5 cryptography 1.7.2-5.ph1

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

That's all there is to it!

1.7 javax-json 1.0.4

1.8 ecj 3.12.3

1.8.1 Available under license :

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1.9 wpa-supPLICANT 2.6 5.eI7_4.1

1.9.1 Available under license :

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1.10 time 1.7 45.el7

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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1.11 jaxb-core 2.2.10-b140802.1033

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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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(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

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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.

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,

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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. Source Code.

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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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.

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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.

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1.19 linux_kernel_zlib 3.10.87

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

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

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- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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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```
<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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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) year 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:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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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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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

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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.

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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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(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.

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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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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

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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.
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For an executable, the required form of the "work that uses the

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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.>

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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!

/* 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
 * details.

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* M. Welsh, 6 July 1996

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```
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```

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```
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```

```
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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>

for their continuing work on the DVB driver

Michael Holz <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacom.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
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...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

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for many bugfixes

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for all the work for the FlexCopII chipset by B2C2, Inc.

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for his work on the budget drivers, the demux code,

the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc's for the
TechnoTrend/Hauppauge DEC driver firmware

Michael Dreher <michael@5dot1.de>
Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
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Peter Beutner <p.beutner@gmx.net>
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for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)

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1.25 python-markupsafe 0.11 10.e17

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1.26 perl-podlators 2.5.1 3.e17

1.27 libndp 1.2 9.e17

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1.28 perl-http-negotiate 6.01 5.el7

1.29 free-type 2.8-14.el7_9.1

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```
# Files that don't get a copyright, or which are taken from elsewhere.  
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# All lines in this file are patterns, including the comment lines; this  
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# the file name (including the path relative to the current directory,  
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#  
.gitignore  
#  
builds/unix/pkg.m4  
#  
docs/FTL.TXT  
docs/GPLv2.TXT  
#
```

include/freetype/internal/fthash.h

#

src/base/fthash.c

src/base/md5.c

src/base/md5.h

#

src/bdf/bdf.c

src/bdf/bdf.h

src/bdf/bdfdrivr.c

src/bdf/bdfdrivr.h

src/bdf/bdferror.h

src/bdf/bdflib.c

src/bdf/module.mk

src/bdf/README

src/bdf/rules.mk

#

src/pcf/module.mk

src/pcf/pcf.c

src/pcf/pcf.h

src/pcf/pcfdrivr.c

src/pcf/pcfdrivr.h

src/pcf/pcferror.h

src/pcf/pcfread.c

src/pcf/pcfread.h

src/pcf/pcfutil.c

src/pcf/pcfutil.h

src/pcf/README

src/pcf/rules.mk

#

src/gzip/adler32.c

src/gzip/infblock.c

src/gzip/infblock.h

src/gzip/infcodes.c

src/gzip/infcodes.h

src/gzip/inffixed.h

src/gzip/inflate.c

src/gzip/inftrees.c

src/gzip/inftrees.h

src/gzip/infutil.c

src/gzip/infutil.h

src/gzip/zconf.h

src/gzip/zlib.h

src/gzip/zutil.c

src/gzip/zutil.h

#

src/tools/apinames.c

src/tools/ftrandom/ftrandom.c

#

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1.30 libxi 1.7.9-1.el7

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```

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```
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under certain conditions; type `show c' for details.
```

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1.34 numactl 2.0.12 5.e17

1.34.1 Available under license :

```
# libtool.m4 - Configure libtool for the host system. -*-Autoconf-*-
#
# Copyright (C) 1996-2001, 2003-2015 Free Software Foundation, Inc.
# Written by Gordon Matzigkeit, 1996
#
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m4_define([_LT_COPYING], [dnl
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```

1.35 zlib 1.2.7

1.35.1 Available under license :

```
/*
 * match.S -- optimized version of longest_match()
 * based on the similar work by Gilles Vollant, and Brian Raiter, written 1998
 *
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 */
/*
 *
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substantive changes or deletions from the original are clearly
marked.
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.6, January 29th, 2012
```

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Jean-loup Gailly Mark Adler
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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

*/

```
#ifndef ZLIB_H
#define ZLIB_H
```

```
#include "zconf.h"
```

```
#ifdef __cplusplus
extern "C" {
#endif
```

```
#define ZLIB_VERSION "1.2.6"
#define ZLIB_VERNUM 0x1260
#define ZLIB_VER_MAJOR 1
#define ZLIB_VER_MINOR 2
#define ZLIB_VER_REVISION 6
#define ZLIB_VER_SUBREVISION 0
```

```
/*
```

The 'zlib' compression library provides in-memory compression and decompression functions, including integrity checks of the uncompressed data. This version of the library supports only one compression method (deflation) but other algorithms will be added later and will have the same stream interface.

Compression can be done in a single step if the buffers are large enough, or can be done by repeated calls of the compression function. In the latter case, the application must provide more input and/or consume the output (providing more output space) before each call.

The compressed data format used by default by the in-memory functions is

the zlib format, which is a zlib wrapper documented in RFC 1950, wrapped around a deflate stream, which is itself documented in RFC 1951.

The library also supports reading and writing files in gzip (.gz) format with an interface similar to that of stdio using the functions that start with "gz". The gzip format is different from the zlib format. gzip is a gzip wrapper, documented in RFC 1952, wrapped around a deflate stream.

This library can optionally read and write gzip streams in memory as well.

The zlib format was designed to be compact and fast for use in memory and on communications channels. The gzip format was designed for single-file compression on file systems, has a larger header than zlib to maintain directory information, and uses a different, slower check method than zlib.

The library does not install any signal handler. The decoder checks the consistency of the compressed data, so the library should never crash even in case of corrupted input.

*/

```
typedef voidpf (*alloc_func) OF((voidpf opaque, uInt items, uInt size));
typedef void (*free_func) OF((voidpf opaque, voidpf address));
```

```
struct internal_state;
```

```
typedef struct z_stream_s {
```

```
    z_const Bytef *next_in; /* next input byte */
```

```
    uInt avail_in; /* number of bytes available at next_in */
```

```
    uLong total_in; /* total number of input bytes read so far */
```

```
    Bytef *next_out; /* next output byte should be put there */
```

```
    uInt avail_out; /* remaining free space at next_out */
```

```
    uLong total_out; /* total number of bytes output so far */
```

```
    z_const char *msg; /* last error message, NULL if no error */
```

```
    struct internal_state FAR *state; /* not visible by applications */
```

```
    alloc_func zalloc; /* used to allocate the internal state */
```

```
    free_func zfree; /* used to free the internal state */
```

```
    voidpf opaque; /* private data object passed to zalloc and zfree */
```

```
    int data_type; /* best guess about the data type: binary or text */
```

```
    uLong Adler; /* Adler32 value of the uncompressed data */
```

```
    uLong reserved; /* reserved for future use */
```

```
} z_stream;
```

```
typedef z_stream FAR *z_streamp;
```



```

/*
    gzip header information passed to and from zlib routines. See RFC 1952
    for more details on the meanings of these fields.
*/
typedef struct gz_header_s {
    int    text;    /* true if compressed data believed to be text */
    uLong  time;    /* modification time */
    int    xflags;  /* extra flags (not used when writing a gzip file) */
    int    os;      /* operating system */
    Bytef  *extra;  /* pointer to extra field or Z_NULL if none */
    uInt   extra_len; /* extra field length (valid if extra != Z_NULL) */
    uInt   extra_max; /* space at extra (only when reading header) */
    Bytef  *name;   /* pointer to zero-terminated file name or Z_NULL */
    uInt   name_max; /* space at name (only when reading header) */
    Bytef  *comment; /* pointer to zero-terminated comment or Z_NULL */
    uInt   comm_max; /* space at comment (only when reading header) */
    int    hcrc;    /* true if there was or will be a header crc */
    int    done;    /* true when done reading gzip header (not used
                    when writing a gzip file) */
} gz_header;

typedef gz_header FAR *gz_headerp;

```

/*

The application must update next_in and avail_in when avail_in has dropped to zero. It must update next_out and avail_out when avail_out has dropped to zero. The application must initialize zalloc, zfree and opaque before calling the init function. All other fields are set by the compression library and must not be updated by the application.

The opaque value provided by the application will be passed as the first parameter for calls of zalloc and zfree. This can be useful for custom memory management. The compression library attaches no meaning to the opaque value.

zalloc must return Z_NULL if there is not enough memory for the object. If zlib is used in a multi-threaded application, zalloc and zfree must be thread safe.

On 16-bit systems, the functions zalloc and zfree must be able to allocate exactly 65536 bytes, but will not be required to allocate more than this if the symbol MAXSEG_64K is defined (see zconf.h). **WARNING:** On MSDOS, pointers returned by zalloc for objects of exactly 65536 bytes *must* have their offset normalized to zero. The default allocation function provided by this library ensures this (see zutil.c). To reduce memory requirements and avoid any allocation of 64K objects, at the expense of compression ratio, compile the library with -DMAX_WBITS=14 (see zconf.h).

The fields `total_in` and `total_out` can be used for statistics or progress reports. After compression, `total_in` holds the total size of the uncompressed data and may be saved for use in the decompressor (particularly if the decompressor wants to decompress everything in a single step).

*/

/* constants */

#define Z_NO_FLUSH 0

#define Z_PARTIAL_FLUSH 1

#define Z_SYNC_FLUSH 2

#define Z_FULL_FLUSH 3

#define Z_FINISH 4

#define Z_BLOCK 5

#define Z_TREES 6

/* Allowed flush values; see deflate() and inflate() below for details */

#define Z_OK 0

#define Z_STREAM_END 1

#define Z_NEED_DICT 2

#define Z_ERRNO (-1)

#define Z_STREAM_ERROR (-2)

#define Z_DATA_ERROR (-3)

#define Z_MEM_ERROR (-4)

#define Z_BUF_ERROR (-5)

#define Z_VERSION_ERROR (-6)

/* Return codes for the compression/decompression functions. Negative values
* are errors, positive values are used for special but normal events.

*/

#define Z_NO_COMPRESSION 0

#define Z_BEST_SPEED 1

#define Z_BEST_COMPRESSION 9

#define Z_DEFAULT_COMPRESSION (-1)

/* compression levels */

#define Z_FILTERED 1

#define Z_HUFFMAN_ONLY 2

#define Z_RLE 3

#define Z_FIXED 4

#define Z_DEFAULT_STRATEGY 0

/* compression strategy; see deflateInit2() below for details */

#define Z_BINARY 0

#define Z_TEXT 1

#define Z_ASCII Z_TEXT /* for compatibility with 1.2.2 and earlier */

#define Z_UNKNOWN 2

/* Possible values of the data_type field (though see inflate()) */

```

#define Z_DEFLATED 8
/* The deflate compression method (the only one supported in this version) */

#define Z_NULL 0 /* for initializing zalloc, zfree, opaque */

#define zlib_version zlibVersion()
/* for compatibility with versions < 1.0.2 */

        /* basic functions */

ZEXTERN const char * ZEXPORT zlibVersion OF((void));
/* The application can compare zlibVersion and ZLIB_VERSION for consistency.
   If the first character differs, the library code actually used is not
   compatible with the zlib.h header file used by the application. This check
   is automatically made by deflateInit and inflateInit.
*/

/*

ZEXTERN int ZEXPORT deflateInit OF((z_streamp strm, int level));

        Initializes the internal stream state for compression. The fields
        zalloc, zfree and opaque must be initialized before by the caller. If
        zalloc and zfree are set to Z_NULL, deflateInit updates them to use default
        allocation functions.

        The compression level must be Z_DEFAULT_COMPRESSION, or between 0 and 9:
        1 gives best speed, 9 gives best compression, 0 gives no compression at all
        (the input data is simply copied a block at a time). Z_DEFAULT_COMPRESSION
        requests a default compromise between speed and compression (currently
        equivalent to level 6).

        deflateInit returns Z_OK if success, Z_MEM_ERROR if there was not enough
        memory, Z_STREAM_ERROR if level is not a valid compression level, or
        Z_VERSION_ERROR if the zlib library version (zlib_version) is incompatible
        with the version assumed by the caller (ZLIB_VERSION). msg is set to null
        if there is no error message. deflateInit does not perform any compression:
        this will be done by deflate().
*/

ZEXTERN int ZEXPORT deflate OF((z_streamp strm, int flush));
/*

        deflate compresses as much data as possible, and stops when the input
        buffer becomes empty or the output buffer becomes full. It may introduce
        some output latency (reading input without producing any output) except when
        forced to flush.

```

The detailed semantics are as follows. `deflate` performs one or both of the following actions:

- Compress more input starting at `next_in` and update `next_in` and `avail_in` accordingly. If not all input can be processed (because there is not enough room in the output buffer), `next_in` and `avail_in` are updated and processing will resume at this point for the next call of `deflate()`.
- Provide more output starting at `next_out` and update `next_out` and `avail_out` accordingly. This action is forced if the parameter `flush` is non zero. Forcing flush frequently degrades the compression ratio, so this parameter should be set only when necessary (in interactive applications). Some output may be provided even if `flush` is not set.

Before the call of `deflate()`, the application should ensure that at least one of the actions is possible, by providing more input and/or consuming more output, and updating `avail_in` or `avail_out` accordingly; `avail_out` should never be zero before the call. The application can consume the compressed output when it wants, for example when the output buffer is full (`avail_out == 0`), or after each call of `deflate()`. If `deflate` returns `Z_OK` and with zero `avail_out`, it must be called again after making room in the output buffer because there might be more output pending.

Normally the parameter `flush` is set to `Z_NO_FLUSH`, which allows `deflate` to decide how much data to accumulate before producing output, in order to maximize compression.

If the parameter `flush` is set to `Z_SYNC_FLUSH`, all pending output is flushed to the output buffer and the output is aligned on a byte boundary, so that the decompressor can get all input data available so far. (In particular `avail_in` is zero after the call if enough output space has been provided before the call.) Flushing may degrade compression for some compression algorithms and so it should be used only when necessary. This completes the current deflate block and follows it with an empty stored block that is three bits plus filler bits to the next byte, followed by four bytes (00 00 ff ff).

If `flush` is set to `Z_PARTIAL_FLUSH`, all pending output is flushed to the output buffer, but the output is not aligned to a byte boundary. All of the input data so far will be available to the decompressor, as for `Z_SYNC_FLUSH`. This completes the current deflate block and follows it with an empty fixed codes block that is 10 bits long. This assures that enough bytes are output in order for the decompressor to finish the block before the empty fixed code block.

If `flush` is set to `Z_BLOCK`, a deflate block is completed and emitted, as for `Z_SYNC_FLUSH`, but the output is not aligned on a byte boundary, and up to

seven bits of the current block are held to be written as the next byte after the next deflate block is completed. In this case, the decompressor may not be provided enough bits at this point in order to complete decompression of the data provided so far to the compressor. It may need to wait for the next block to be emitted. This is for advanced applications that need to control the emission of deflate blocks.

If flush is set to `Z_FULL_FLUSH`, all output is flushed as with `Z_SYNC_FLUSH`, and the compression state is reset so that decompression can restart from this point if previous compressed data has been damaged or if random access is desired. Using `Z_FULL_FLUSH` too often can seriously degrade compression.

If deflate returns with `avail_out == 0`, this function must be called again with the same value of the flush parameter and more output space (updated `avail_out`), until the flush is complete (deflate returns with non-zero `avail_out`). In the case of a `Z_FULL_FLUSH` or `Z_SYNC_FLUSH`, make sure that `avail_out` is greater than six to avoid repeated flush markers due to `avail_out == 0` on return.

If the parameter flush is set to `Z_FINISH`, pending input is processed, pending output is flushed and deflate returns with `Z_STREAM_END` if there was enough output space; if deflate returns with `Z_OK`, this function must be called again with `Z_FINISH` and more output space (updated `avail_out`) but no more input data, until it returns with `Z_STREAM_END` or an error. After deflate has returned `Z_STREAM_END`, the only possible operations on the stream are `deflateReset` or `deflateEnd`.

`Z_FINISH` can be used immediately after `deflateInit` if all the compression is to be done in a single step. In this case, `avail_out` must be at least the value returned by `deflateBound` (see below). Then deflate is guaranteed to return `Z_STREAM_END`. If not enough output space is provided, deflate will not return `Z_STREAM_END`, and it must be called again as described above.

`deflate()` sets `strm->adler` to the adler32 checksum of all input read so far (that is, `total_in` bytes).

`deflate()` may update `strm->data_type` if it can make a good guess about the input data type (`Z_BINARY` or `Z_TEXT`). In doubt, the data is considered binary. This field is only for information purposes and does not affect the compression algorithm in any manner.

`deflate()` returns `Z_OK` if some progress has been made (more input processed or more output produced), `Z_STREAM_END` if all input has been consumed and all output has been produced (only when flush is set to `Z_FINISH`), `Z_STREAM_ERROR` if the stream state was inconsistent (for example if `next_in` or `next_out` was `Z_NULL`), `Z_BUF_ERROR` if no progress is possible (for example `avail_in` or `avail_out` was zero). Note that `Z_BUF_ERROR` is not

fatal, and deflate() can be called again with more input and more output space to continue compressing.

*/

```
ZEXTERN int ZEXPORT deflateEnd OF((z_streamp strm));
```

/*

All dynamically allocated data structures for this stream are freed.

This function discards any unprocessed input and does not flush any pending output.

deflateEnd returns Z_OK if success, Z_STREAM_ERROR if the stream state was inconsistent, Z_DATA_ERROR if the stream was freed prematurely (some input or output was discarded). In the error case, msg may be set but then points to a static string (which must not be deallocated).

*/

/*

```
ZEXTERN int ZEXPORT inflateInit OF((z_streamp strm));
```

Initializes the internal stream state for decompression. The fields next_in, avail_in, zalloc, zfree and opaque must be initialized before by the caller. If next_in is not Z_NULL and avail_in is large enough (the exact value depends on the compression method), inflateInit determines the compression method from the zlib header and allocates all data structures accordingly; otherwise the allocation will be deferred to the first call of inflate. If zalloc and zfree are set to Z_NULL, inflateInit updates them to use default allocation functions.

inflateInit returns Z_OK if success, Z_MEM_ERROR if there was not enough memory, Z_VERSION_ERROR if the zlib library version is incompatible with the version assumed by the caller, or Z_STREAM_ERROR if the parameters are invalid, such as a null pointer to the structure. msg is set to null if there is no error message. inflateInit does not perform any decompression apart from possibly reading the zlib header if present: actual decompression will be done by inflate(). (So next_in and avail_in may be modified, but next_out and avail_out are unused and unchanged.) The current implementation of inflateInit() does not process any header information -- that is deferred until inflate() is called.

*/

```
ZEXTERN int ZEXPORT inflate OF((z_streamp strm, int flush));
```

/*

inflate decompresses as much data as possible, and stops when the input buffer becomes empty or the output buffer becomes full. It may introduce

some output latency (reading input without producing any output) except when forced to flush.

The detailed semantics are as follows. `inflate` performs one or both of the following actions:

- Decompress more input starting at `next_in` and update `next_in` and `avail_in` accordingly. If not all input can be processed (because there is not enough room in the output buffer), `next_in` is updated and processing will resume at this point for the next call of `inflate()`.
- Provide more output starting at `next_out` and update `next_out` and `avail_out` accordingly. `inflate()` provides as much output as possible, until there is no more input data or no more space in the output buffer (see below about the flush parameter).

Before the call of `inflate()`, the application should ensure that at least one of the actions is possible, by providing more input and/or consuming more output, and updating the `next_*` and `avail_*` values accordingly. The application can consume the uncompressed output when it wants, for example when the output buffer is full (`avail_out == 0`), or after each call of `inflate()`. If `inflate` returns `Z_OK` and with zero `avail_out`, it must be called again after making room in the output buffer because there might be more output pending.

The flush parameter of `inflate()` can be `Z_NO_FLUSH`, `Z_SYNC_FLUSH`, `Z_FINISH`, `Z_BLOCK`, or `Z_TREES`. `Z_SYNC_FLUSH` requests that `inflate()` flush as much output as possible to the output buffer. `Z_BLOCK` requests that `inflate()` stop if and when it gets to the next deflate block boundary. When decoding the zlib or gzip format, this will cause `inflate()` to return immediately after the header and before the first block. When doing a raw inflate, `inflate()` will go ahead and process the first block, and will return when it gets to the end of that block, or when it runs out of data.

The `Z_BLOCK` option assists in appending to or combining deflate streams. Also to assist in this, on return `inflate()` will set `strm->data_type` to the number of unused bits in the last byte taken from `strm->next_in`, plus 64 if `inflate()` is currently decoding the last block in the deflate stream, plus 128 if `inflate()` returned immediately after decoding an end-of-block code or decoding the complete header up to just before the first byte of the deflate stream. The end-of-block will not be indicated until all of the uncompressed data from that block has been written to `strm->next_out`. The number of unused bits may in general be greater than seven, except when bit 7 of `data_type` is set, in which case the number of unused bits will be less than eight. `data_type` is set as noted here every time `inflate()` returns for all flush options, and so can be used to determine the amount of currently consumed input in bits.

The `Z_TREES` option behaves as `Z_BLOCK` does, but it also returns when the end of each deflate block header is reached, before any actual data in that block is decoded. This allows the caller to determine the length of the deflate block header for later use in random access within a deflate block. 256 is added to the value of `strm->data_type` when `inflate()` returns immediately after reaching the end of the deflate block header.

`inflate()` should normally be called until it returns `Z_STREAM_END` or an error. However if all decompression is to be performed in a single step (a single call of `inflate`), the parameter `flush` should be set to `Z_FINISH`. In this case all pending input is processed and all pending output is flushed; `avail_out` must be large enough to hold all the uncompressed data. (The size of the uncompressed data may have been saved by the compressor for this purpose.) The next operation on this stream must be `inflateEnd` to deallocate the decompression state. The use of `Z_FINISH` is not required to perform an inflation in one step. However it may be used to inform `inflate` that a faster approach can be used for the single `inflate()` call. `Z_FINISH` also informs `inflate` to not maintain a sliding window if the stream completes, which reduces `inflate`'s memory footprint.

In this implementation, `inflate()` always flushes as much output as possible to the output buffer, and always uses the faster approach on the first call. So the effects of the `flush` parameter in this implementation are on the return value of `inflate()` as noted below, when `inflate()` returns early when `Z_BLOCK` or `Z_TREES` is used, and when `inflate()` avoids the allocation of memory for a sliding window when `Z_FINISH` is used.

If a preset dictionary is needed after this call (see `inflateSetDictionary` below), `inflate` sets `strm->adler` to the Adler-32 checksum of the dictionary chosen by the compressor and returns `Z_NEED_DICT`; otherwise it sets `strm->adler` to the Adler-32 checksum of all output produced so far (that is, `total_out` bytes) and returns `Z_OK`, `Z_STREAM_END` or an error code as described below. At the end of the stream, `inflate()` checks that its computed `adler32` checksum is equal to that saved by the compressor and returns `Z_STREAM_END` only if the checksum is correct.

`inflate()` can decompress and check either `zlib`-wrapped or `gzip`-wrapped deflate data. The header type is detected automatically, if requested when initializing with `inflateInit2()`. Any information contained in the `gzip` header is not retained, so applications that need that information should instead use raw `inflate`, see `inflateInit2()` below, or `inflateBack()` and perform their own processing of the `gzip` header and trailer. When processing `gzip`-wrapped deflate data, `strm->adler32` is set to the CRC-32 of the output produced so far. The CRC-32 is checked against the `gzip` trailer.

`inflate()` returns `Z_OK` if some progress has been made (more input processed or more output produced), `Z_STREAM_END` if the end of the compressed data has been reached and all uncompressed output has been produced, `Z_NEED_DICT` if a

preset dictionary is needed at this point, Z_DATA_ERROR if the input data was corrupted (input stream not conforming to the zlib format or incorrect check value), Z_STREAM_ERROR if the stream structure was inconsistent (for example next_in or next_out was Z_NULL), Z_MEM_ERROR if there was not enough memory, Z_BUF_ERROR if no progress is possible or if there was not enough room in the output buffer when Z_FINISH is used. Note that Z_BUF_ERROR is not fatal, and inflate() can be called again with more input and more output space to continue decompressing. If Z_DATA_ERROR is returned, the application may then call inflateSync() to look for a good compression block if a partial recovery of the data is desired.

*/

```
ZEXTERN int ZEXPORT inflateEnd OF((z_streamp strm));
```

/*

All dynamically allocated data structures for this stream are freed.

This function discards any unprocessed input and does not flush any pending output.

inflateEnd returns Z_OK if success, Z_STREAM_ERROR if the stream state was inconsistent. In the error case, msg may be set but then points to a static string (which must not be deallocated).

*/

/* Advanced functions */

/*

The following functions are needed only in some special applications.

*/

/*

```
ZEXTERN int ZEXPORT deflateInit2 OF((z_streamp strm,  
                                     int level,  
                                     int method,  
                                     int windowBits,  
                                     int memLevel,  
                                     int strategy));
```

This is another version of deflateInit with more compression options. The fields next_in, zalloc, zfree and opaque must be initialized before by the caller.

The method parameter is the compression method. It must be Z_DEFLATED in this version of the library.

The windowBits parameter is the base two logarithm of the window size (the size of the history buffer). It should be in the range 8..15 for this

version of the library. Larger values of this parameter result in better compression at the expense of memory usage. The default value is 15 if `deflateInit` is used instead.

`windowBits` can also be `-8..-15` for raw deflate. In this case, `-windowBits` determines the window size. `deflate()` will then generate raw deflate data with no zlib header or trailer, and will not compute an `adler32` check value.

`windowBits` can also be greater than 15 for optional gzip encoding. Add 16 to `windowBits` to write a simple gzip header and trailer around the compressed data instead of a zlib wrapper. The gzip header will have no file name, no extra data, no comment, no modification time (set to zero), no header crc, and the operating system will be set to 255 (unknown). If a gzip stream is being written, `strm->adler` is a `crc32` instead of an `adler32`.

The `memLevel` parameter specifies how much memory should be allocated for the internal compression state. `memLevel=1` uses minimum memory but is slow and reduces compression ratio; `memLevel=9` uses maximum memory for optimal speed. The default value is 8. See `zconf.h` for total memory usage as a function of `windowBits` and `memLevel`.

The `strategy` parameter is used to tune the compression algorithm. Use the value `Z_DEFAULT_STRATEGY` for normal data, `Z_FILTERED` for data produced by a filter (or predictor), `Z_HUFFMAN_ONLY` to force Huffman encoding only (no string match), or `Z_RLE` to limit match distances to one (run-length encoding). Filtered data consists mostly of small values with a somewhat random distribution. In this case, the compression algorithm is tuned to compress them better. The effect of `Z_FILTERED` is to force more Huffman coding and less string matching; it is somewhat intermediate between `Z_DEFAULT_STRATEGY` and `Z_HUFFMAN_ONLY`. `Z_RLE` is designed to be almost as fast as `Z_HUFFMAN_ONLY`, but give better compression for PNG image data. The `strategy` parameter only affects the compression ratio but not the correctness of the compressed output even if it is not set appropriately. `Z_FIXED` prevents the use of dynamic Huffman codes, allowing for a simpler decoder for special applications.

`deflateInit2` returns `Z_OK` if success, `Z_MEM_ERROR` if there was not enough memory, `Z_STREAM_ERROR` if any parameter is invalid (such as an invalid method), or `Z_VERSION_ERROR` if the zlib library version (`zlib_version`) is incompatible with the version assumed by the caller (`ZLIB_VERSION`). `msg` is set to null if there is no error message. `deflateInit2` does not perform any compression: this will be done by `deflate()`.

*/

```
ZEXTERN int ZEXPORT deflateSetDictionary OF((z_streamp strm,
      const Bytef *dictionary,
      uInt dictLength));
```

/*

Initializes the compression dictionary from the given byte sequence without producing any compressed output. When using the zlib format, this function must be called immediately after `deflateInit`, `deflateInit2` or `deflateReset`, and before any call of `deflate`. When doing raw deflate, this function must be called either before any call of `deflate`, or immediately after the completion of a deflate block, i.e. after all input has been consumed and all output has been delivered when using any of the flush options `Z_BLOCK`, `Z_PARTIAL_FLUSH`, `Z_SYNC_FLUSH`, or `Z_FULL_FLUSH`. The compressor and decompressor must use exactly the same dictionary (see `inflateSetDictionary`).

The dictionary should consist of strings (byte sequences) that are likely to be encountered later in the data to be compressed, with the most commonly used strings preferably put towards the end of the dictionary. Using a dictionary is most useful when the data to be compressed is short and can be predicted with good accuracy; the data can then be compressed better than with the default empty dictionary.

Depending on the size of the compression data structures selected by `deflateInit` or `deflateInit2`, a part of the dictionary may in effect be discarded, for example if the dictionary is larger than the window size provided in `deflateInit` or `deflateInit2`. Thus the strings most likely to be useful should be put at the end of the dictionary, not at the front. In addition, the current implementation of deflate will use at most the window size minus 262 bytes of the provided dictionary.

Upon return of this function, `strm->adler` is set to the Adler32 value of the dictionary; the decompressor may later use this value to determine which dictionary has been used by the compressor. (The Adler32 value applies to the whole dictionary even if only a subset of the dictionary is actually used by the compressor.) If a raw deflate was requested, then the Adler32 value is not computed and `strm->adler` is not set.

`deflateSetDictionary` returns `Z_OK` if success, or `Z_STREAM_ERROR` if a parameter is invalid (e.g. dictionary being `Z_NULL`) or the stream state is inconsistent (for example if deflate has already been called for this stream or if not at a block boundary for raw deflate). `deflateSetDictionary` does not perform any compression: this will be done by `deflate()`.

*/

```
ZEXTERN int ZEXPORT deflateCopy OF((z_streamp dest,  
                                   z_streamp source));
```

/*

Sets the destination stream as a complete copy of the source stream.

This function can be useful when several compression strategies will be tried, for example when there are several ways of pre-processing the input data with a filter. The streams that will be discarded should then be freed

by calling deflateEnd. Note that deflateCopy duplicates the internal compression state which can be quite large, so this strategy is slow and can consume lots of memory.

deflateCopy returns Z_OK if success, Z_MEM_ERROR if there was not enough memory, Z_STREAM_ERROR if the source stream state was inconsistent (such as zalloc being Z_NULL). msg is left unchanged in both source and destination.

*/

```
ZEXTERN int ZEXPORT deflateReset OF((z_streamp strm));
```

/*

This function is equivalent to deflateEnd followed by deflateInit, but does not free and reallocate all the internal compression state. The stream will keep the same compression level and any other attributes that may have been set by deflateInit2.

deflateReset returns Z_OK if success, or Z_STREAM_ERROR if the source stream state was inconsistent (such as zalloc or state being Z_NULL).

*/

```
ZEXTERN int ZEXPORT deflateParams OF((z_streamp strm,
                                     int level,
                                     int strategy));
```

/*

Dynamically update the compression level and compression strategy. The interpretation of level and strategy is as in deflateInit2. This can be used to switch between compression and straight copy of the input data, or to switch to a different kind of input data requiring a different strategy. If the compression level is changed, the input available so far is compressed with the old level (and may be flushed); the new level will take effect only at the next call of deflate().

Before the call of deflateParams, the stream state must be set as for a call of deflate(), since the currently available input may have to be compressed and flushed. In particular, strm->avail_out must be non-zero.

deflateParams returns Z_OK if success, Z_STREAM_ERROR if the source stream state was inconsistent or if a parameter was invalid, Z_BUF_ERROR if strm->avail_out was zero.

*/

```
ZEXTERN int ZEXPORT deflateTune OF((z_streamp strm,
                                    int good_length,
                                    int max_lazy,
                                    int nice_length,
                                    int max_chain));
```

/*

Fine tune deflate's internal compression parameters. This should only be used by someone who understands the algorithm used by zlib's deflate for searching for the best matching string, and even then only by the most fanatic optimizer trying to squeeze out the last compressed bit for their specific input data. Read the deflate.c source code for the meaning of the max_lazy, good_length, nice_length, and max_chain parameters.

deflateTune() can be called after deflateInit() or deflateInit2(), and returns Z_OK on success, or Z_STREAM_ERROR for an invalid deflate stream.

*/

```
ZEXTERN uLong ZEXPORT deflateBound OF((z_streamp strm,
                                     uLong sourceLen));
```

/*

deflateBound() returns an upper bound on the compressed size after deflation of sourceLen bytes. It must be called after deflateInit() or deflateInit2(), and after deflateSetHeader(), if used. This would be used to allocate an output buffer for deflation in a single pass, and so would be called before deflate(). If that first deflate() call is provided the sourceLen input bytes, an output buffer allocated to the size returned by deflateBound(), and the flush value Z_FINISH, then deflate() is guaranteed to return Z_STREAM_END. Note that it is possible for the compressed size to be larger than the value returned by deflateBound() if flush options other than Z_FINISH or Z_NO_FLUSH are used.

*/

```
ZEXTERN int ZEXPORT deflatePending OF((z_streamp strm,
                                       unsigned *pending,
                                       int *bits));
```

/*

deflatePending() returns the number of bytes and bits of output that have been generated, but not yet provided in the available output. The bytes not provided would be due to the available output space having been consumed. The number of bits of output not provided are between 0 and 7, where they await more bits to join them in order to fill out a full byte. If pending or bits are Z_NULL, then those values are not set.

deflatePending returns Z_OK if success, or Z_STREAM_ERROR if the source stream state was inconsistent.

*/

```
ZEXTERN int ZEXPORT deflatePrime OF((z_streamp strm,
                                     int bits,
                                     int value));
```

/*

deflatePrime() inserts bits in the deflate output stream. The intent is that this function is used to start off the deflate output with the bits leftover from a previous deflate stream when appending to it. As such, this

function can only be used for raw deflate, and must be used before the first deflate() call after a deflateInit2() or deflateReset(). bits must be less than or equal to 16, and that many of the least significant bits of value will be inserted in the output.

deflatePrime returns Z_OK if success, Z_BUF_ERROR if there was not enough room in the internal buffer to insert the bits, or Z_STREAM_ERROR if the source stream state was inconsistent.

*/

```
ZEXTERN int ZEXPORT deflateSetHeader OF((z_streamp strm,
                                        gz_headerp head));
```

/*

deflateSetHeader() provides gzip header information for when a gzip stream is requested by deflateInit2(). deflateSetHeader() may be called after deflateInit2() or deflateReset() and before the first call of deflate(). The text, time, os, extra field, name, and comment information in the provided gz_header structure are written to the gzip header (xflag is ignored -- the extra flags are set according to the compression level). The caller must assure that, if not Z_NULL, name and comment are terminated with a zero byte, and that if extra is not Z_NULL, that extra_len bytes are available there. If hcrc is true, a gzip header crc is included. Note that the current versions of the command-line version of gzip (up through version 1.3.x) do not support header crc's, and will report that it is a "multi-part gzip file" and give up.

If deflateSetHeader is not used, the default gzip header has text false, the time set to zero, and os set to 255, with no extra, name, or comment fields. The gzip header is returned to the default state by deflateReset().

deflateSetHeader returns Z_OK if success, or Z_STREAM_ERROR if the source stream state was inconsistent.

*/

/*

```
ZEXTERN int ZEXPORT inflateInit2 OF((z_streamp strm,
                                     int windowBits));
```

This is another version of inflateInit with an extra parameter. The fields next_in, avail_in, zalloc, zfree and opaque must be initialized before by the caller.

The windowBits parameter is the base two logarithm of the maximum window size (the size of the history buffer). It should be in the range 8..15 for this version of the library. The default value is 15 if inflateInit is used instead. windowBits must be greater than or equal to the windowBits value provided to deflateInit2() while compressing, or it must be equal to 15 if deflateInit2() was not used. If a compressed stream with a larger window

size is given as input, inflate() will return with the error code Z_DATA_ERROR instead of trying to allocate a larger window.

windowBits can also be zero to request that inflate use the window size in the zlib header of the compressed stream.

windowBits can also be -8..-15 for raw inflate. In this case, -windowBits determines the window size. inflate() will then process raw deflate data, not looking for a zlib or gzip header, not generating a check value, and not looking for any check values for comparison at the end of the stream. This is for use with other formats that use the deflate compressed data format such as zip. Those formats provide their own check values. If a custom format is developed using the raw deflate format for compressed data, it is recommended that a check value such as an Adler32 or a CRC32 be applied to the uncompressed data as is done in the zlib, gzip, and zip formats. For most applications, the zlib format should be used as is. Note that comments above on the use in deflateInit2() applies to the magnitude of windowBits.

windowBits can also be greater than 15 for optional gzip decoding. Add 32 to windowBits to enable zlib and gzip decoding with automatic header detection, or add 16 to decode only the gzip format (the zlib format will return a Z_DATA_ERROR). If a gzip stream is being decoded, strm->adler is a CRC32 instead of an Adler32.

inflateInit2 returns Z_OK if success, Z_MEM_ERROR if there was not enough memory, Z_VERSION_ERROR if the zlib library version is incompatible with the version assumed by the caller, or Z_STREAM_ERROR if the parameters are invalid, such as a null pointer to the structure. msg is set to null if there is no error message. inflateInit2 does not perform any decompression apart from possibly reading the zlib header if present: actual decompression will be done by inflate(). (So next_in and avail_in may be modified, but next_out and avail_out are unused and unchanged.) The current implementation of inflateInit2() does not process any header information -- that is deferred until inflate() is called.

*/

```
ZEXTERN int ZEXPORT inflateSetDictionary OF((z_streamp strm,
      const Bytef *dictionary,
      uInt dictLength));
```

/*

Initializes the decompression dictionary from the given uncompressed byte sequence. This function must be called immediately after a call of inflate, if that call returned Z_NEED_DICT. The dictionary chosen by the compressor can be determined from the Adler32 value returned by that call of inflate. The compressor and decompressor must use exactly the same dictionary (see deflateSetDictionary). For raw inflate, this function can be called at any time to set the dictionary. If the provided dictionary is smaller than the window and there is already data in the window, then the provided dictionary

will amend what's there. The application must insure that the dictionary that was used for compression is provided.

`inflateSetDictionary` returns `Z_OK` if success, `Z_STREAM_ERROR` if a parameter is invalid (e.g. dictionary being `Z_NULL`) or the stream state is inconsistent, `Z_DATA_ERROR` if the given dictionary doesn't match the expected one (incorrect `adler32` value). `inflateSetDictionary` does not perform any decompression: this will be done by subsequent calls of `inflate()`.

*/

```
ZEXTERN int ZEXPORT inflateSync OF((z_streamp strm));
```

/*

Skips invalid compressed data until a possible full flush point (see above for the description of `deflate` with `Z_FULL_FLUSH`) can be found, or until all available input is skipped. No output is provided.

`inflateSync` searches for a `00 00 FF FF` pattern in the compressed data. All full flush points have this pattern, but not all occurrences of this pattern are full flush points.

`inflateSync` returns `Z_OK` if a possible full flush point has been found, `Z_BUF_ERROR` if no more input was provided, `Z_DATA_ERROR` if no flush point has been found, or `Z_STREAM_ERROR` if the stream structure was inconsistent. In the success case, the application may save the current value of `total_in` which indicates where valid compressed data was found. In the error case, the application may repeatedly call `inflateSync`, providing more input each time, until success or end of the input data.

*/

```
ZEXTERN int ZEXPORT inflateCopy OF((z_streamp dest,  
                                     z_streamp source));
```

/*

Sets the destination stream as a complete copy of the source stream.

This function can be useful when randomly accessing a large stream. The first pass through the stream can periodically record the `inflate` state, allowing restarting `inflate` at those points when randomly accessing the stream.

`inflateCopy` returns `Z_OK` if success, `Z_MEM_ERROR` if there was not enough memory, `Z_STREAM_ERROR` if the source stream state was inconsistent (such as `zalloc` being `Z_NULL`). `msg` is left unchanged in both source and destination.

*/

```
ZEXTERN int ZEXPORT inflateReset OF((z_streamp strm));
```

/*

This function is equivalent to `inflateEnd` followed by `inflateInit`, but does not free and reallocate all the internal decompression state. The stream will keep attributes that may have been set by `inflateInit2`.

`inflateReset` returns `Z_OK` if success, or `Z_STREAM_ERROR` if the source stream state was inconsistent (such as `zalloc` or state being `Z_NULL`).

*/

```
ZEXTERN int ZEXPORT inflateReset2 OF((z_streamp strm,  
                                     int windowBits));
```

/*

This function is the same as `inflateReset`, but it also permits changing the wrap and window size requests. The `windowBits` parameter is interpreted the same as it is for `inflateInit2`.

`inflateReset2` returns `Z_OK` if success, or `Z_STREAM_ERROR` if the source stream state was inconsistent (such as `zalloc` or state being `Z_NULL`), or if the `windowBits` parameter is invalid.

*/

```
ZEXTERN int ZEXPORT inflatePrime OF((z_streamp strm,  
                                     int bits,  
                                     int value));
```

/*

This function inserts bits in the inflate input stream. The intent is that this function is used to start inflating at a bit position in the middle of a byte. The provided bits will be used before any bytes are used from `next_in`. This function should only be used with raw inflate, and should be used before the first `inflate()` call after `inflateInit2()` or `inflateReset()`. `bits` must be less than or equal to 16, and that many of the least significant bits of `value` will be inserted in the input.

If `bits` is negative, then the input stream bit buffer is emptied. Then `inflatePrime()` can be called again to put bits in the buffer. This is used to clear out bits leftover after feeding inflate a block description prior to feeding inflate codes.

`inflatePrime` returns `Z_OK` if success, or `Z_STREAM_ERROR` if the source stream state was inconsistent.

*/

```
ZEXTERN long ZEXPORT inflateMark OF((z_streamp strm));
```

/*

This function returns two values, one in the lower 16 bits of the return value, and the other in the remaining upper bits, obtained by shifting the return value down 16 bits. If the upper value is -1 and the lower value is zero, then `inflate()` is currently decoding information outside of a block. If the upper value is -1 and the lower value is non-zero, then inflate is in

the middle of a stored block, with the lower value equaling the number of bytes from the input remaining to copy. If the upper value is not -1, then it is the number of bits back from the current bit position in the input of the code (literal or length/distance pair) currently being processed. In that case the lower value is the number of bytes already emitted for that code.

A code is being processed if inflate is waiting for more input to complete decoding of the code, or if it has completed decoding but is waiting for more output space to write the literal or match data.

inflateMark() is used to mark locations in the input data for random access, which may be at bit positions, and to note those cases where the output of a code may span boundaries of random access blocks. The current location in the input stream can be determined from avail_in and data_type as noted in the description for the Z_BLOCK flush parameter for inflate.

inflateMark returns the value noted above or -1 << 16 if the provided source stream state was inconsistent.

*/

```
ZEXTERN int ZEXPORT inflateGetHeader OF((z_streamp strm,
                                         gz_headerp head));
```

/*

inflateGetHeader() requests that gzip header information be stored in the provided gz_header structure. inflateGetHeader() may be called after inflateInit2() or inflateReset(), and before the first call of inflate(). As inflate() processes the gzip stream, head->done is zero until the header is completed, at which time head->done is set to one. If a zlib stream is being decoded, then head->done is set to -1 to indicate that there will be no gzip header information forthcoming. Note that Z_BLOCK or Z_TREES can be used to force inflate() to return immediately after header processing is complete and before any actual data is decompressed.

The text, time, xflags, and os fields are filled in with the gzip header contents. hcrc is set to true if there is a header CRC. (The header CRC was valid if done is set to one.) If extra is not Z_NULL, then extra_max contains the maximum number of bytes to write to extra. Once done is true, extra_len contains the actual extra field length, and extra contains the extra field, or that field truncated if extra_max is less than extra_len. If name is not Z_NULL, then up to name_max characters are written there, terminated with a zero unless the length is greater than name_max. If comment is not Z_NULL, then up to comm_max characters are written there, terminated with a zero unless the length is greater than comm_max. When any of extra, name, or comment are not Z_NULL and the respective field is not present in the header, then that field is set to Z_NULL to signal its absence. This allows the use of deflateSetHeader() with the returned structure to duplicate the header. However if those fields are set to

allocated memory, then the application will need to save those pointers elsewhere so that they can be eventually freed.

If `inflateGetHeader` is not used, then the header information is simply discarded. The header is always checked for validity, including the header CRC if present. `inflateReset()` will reset the process to discard the header information. The application would need to call `inflateGetHeader()` again to retrieve the header from the next gzip stream.

`inflateGetHeader` returns `Z_OK` if success, or `Z_STREAM_ERROR` if the source stream state was inconsistent.

*/

/*

```
ZEXTERN int ZEXPORT inflateBackInit OF((z_streamp strm, int windowBits,
                                         unsigned char FAR *window));
```

Initialize the internal stream state for decompression using `inflateBack()` calls. The fields `zalloc`, `zfree` and `opaque` in `strm` must be initialized before the call. If `zalloc` and `zfree` are `Z_NULL`, then the default library-derived memory allocation routines are used. `windowBits` is the base two logarithm of the window size, in the range 8..15. `window` is a caller supplied buffer of that size. Except for special applications where it is assured that deflate was used with small window sizes, `windowBits` must be 15 and a 32K byte window must be supplied to be able to decompress general deflate streams.

See `inflateBack()` for the usage of these routines.

`inflateBackInit` will return `Z_OK` on success, `Z_STREAM_ERROR` if any of the parameters are invalid, `Z_MEM_ERROR` if the internal state could not be allocated, or `Z_VERSION_ERROR` if the version of the library does not match the version of the header file.

*/

```
typedef unsigned (*in_func) OF((void FAR *, unsigned char FAR * FAR *));
```

```
typedef int (*out_func) OF((void FAR *, unsigned char FAR *, unsigned));
```

```
ZEXTERN int ZEXPORT inflateBack OF((z_streamp strm,
                                     in_func in, void FAR *in_desc,
                                     out_func out, void FAR *out_desc));
```

/*

`inflateBack()` does a raw inflate with a single call using a call-back interface for input and output. This is more efficient than `inflate()` for file i/o applications in that it avoids copying between the output and the sliding window by simply making the window itself the output buffer. This function trusts the application to not change the output buffer passed by the output function, at least until `inflateBack()` returns.

`inflateBackInit()` must be called first to allocate the internal state and to initialize the state with the user-provided window buffer. `inflateBack()` may then be used multiple times to inflate a complete, raw deflate stream with each call. `inflateBackEnd()` is then called to free the allocated state.

A raw deflate stream is one with no zlib or gzip header or trailer. This routine would normally be used in a utility that reads zip or gzip files and writes out uncompressed files. The utility would decode the header and process the trailer on its own, hence this routine expects only the raw deflate stream to decompress. This is different from the normal behavior of `inflate()`, which expects either a zlib or gzip header and trailer around the deflate stream.

`inflateBack()` uses two subroutines supplied by the caller that are then called by `inflateBack()` for input and output. `inflateBack()` calls those routines until it reads a complete deflate stream and writes out all of the uncompressed data, or until it encounters an error. The function's parameters and return types are defined above in the `in_func` and `out_func` typedefs. `inflateBack()` will call `in(in_desc, &buf)` which should return the number of bytes of provided input, and a pointer to that input in `buf`. If there is no input available, `in()` must return zero--`buf` is ignored in that case--and `inflateBack()` will return a buffer error. `inflateBack()` will call `out(out_desc, buf, len)` to write the uncompressed data `buf[0..len-1]`. `out()` should return zero on success, or non-zero on failure. If `out()` returns non-zero, `inflateBack()` will return with an error. Neither `in()` nor `out()` are permitted to change the contents of the window provided to `inflateBackInit()`, which is also the buffer that `out()` uses to write from. The length written by `out()` will be at most the window size. Any non-zero amount of input may be provided by `in()`.

For convenience, `inflateBack()` can be provided input on the first call by setting `strm->next_in` and `strm->avail_in`. If that input is exhausted, then `in()` will be called. Therefore `strm->next_in` must be initialized before calling `inflateBack()`. If `strm->next_in` is `Z_NULL`, then `in()` will be called immediately for input. If `strm->next_in` is not `Z_NULL`, then `strm->avail_in` must also be initialized, and then if `strm->avail_in` is not zero, input will initially be taken from `strm->next_in[0 .. strm->avail_in - 1]`.

The `in_desc` and `out_desc` parameters of `inflateBack()` is passed as the first parameter of `in()` and `out()` respectively when they are called. These descriptors can be optionally used to pass any information that the caller-supplied `in()` and `out()` functions need to do their job.

On return, `inflateBack()` will set `strm->next_in` and `strm->avail_in` to pass back any unused input that was provided by the last `in()` call. The return values of `inflateBack()` can be `Z_STREAM_END` on success, `Z_BUF_ERROR`

if in() or out() returned an error, Z_DATA_ERROR if there was a format error in the deflate stream (in which case strm->msg is set to indicate the nature of the error), or Z_STREAM_ERROR if the stream was not properly initialized. In the case of Z_BUF_ERROR, an input or output error can be distinguished using strm->next_in which will be Z_NULL only if in() returned an error. If strm->next_in is not Z_NULL, then the Z_BUF_ERROR was due to out() returning non-zero. (in() will always be called before out(), so strm->next_in is assured to be defined if out() returns non-zero.) Note that inflateBack() cannot return Z_OK.

*/

ZEXTERN int ZEXPORT inflateBackEnd OF((z_streamp strm));

/*

All memory allocated by inflateBackInit() is freed.

inflateBackEnd() returns Z_OK on success, or Z_STREAM_ERROR if the stream state was inconsistent.

*/

ZEXTERN uLong ZEXPORT zlibCompileFlags OF((void));

/* Return flags indicating compile-time options.

Type sizes, two bits each, 00 = 16 bits, 01 = 32, 10 = 64, 11 = other:

1.0: size of uInt

3.2: size of uLong

5.4: size of voidpf (pointer)

7.6: size of z_off_t

Compiler, assembler, and debug options:

8: DEBUG

9: ASMV or ASMINF -- use ASM code

10: ZLIB_WINAPI -- exported functions use the WINAPI calling convention

11: 0 (reserved)

One-time table building (smaller code, but not thread-safe if true):

12: BUILDFIXED -- build static block decoding tables when needed

13: DYNAMIC_CRC_TABLE -- build CRC calculation tables when needed

14,15: 0 (reserved)

Library content (indicates missing functionality):

16: NO_GZCOMPRESS -- gz* functions cannot compress (to avoid linking deflate code when not needed)

17: NO_GZIP -- deflate can't write gzip streams, and inflate can't detect and decode gzip streams (to avoid linking crc code)

18-19: 0 (reserved)

Operation variations (changes in library functionality):

20: PKZIP_BUG_WORKAROUND -- slightly more permissive inflate

21: FASTEST -- deflate algorithm with only one, lowest compression level

22,23: 0 (reserved)

The sprintf variant used by gzprintf (zero is best):

24: 0 = vs*, 1 = s* -- 1 means limited to 20 arguments after the format

25: 0 = *nprintf, 1 = *printf -- 1 means gzprintf() not secure!

26: 0 = returns value, 1 = void -- 1 means inferred string length returned

Remainder:

27-31: 0 (reserved)

*/

#ifndef Z_SOLO

/* utility functions */

/*

The following utility functions are implemented on top of the basic stream-oriented functions. To simplify the interface, some default options are assumed (compression level and memory usage, standard memory allocation functions). The source code of these utility functions can be modified if you need special options.

*/

ZEXTERN int ZEXPORT compress OF((Bytef *dest, uLongf *destLen,
const Bytef *source, uLong sourceLen));

/*

Compresses the source buffer into the destination buffer. sourceLen is the byte length of the source buffer. Upon entry, destLen is the total size of the destination buffer, which must be at least the value returned by compressBound(sourceLen). Upon exit, destLen is the actual size of the compressed buffer.

compress returns Z_OK if success, Z_MEM_ERROR if there was not enough memory, Z_BUF_ERROR if there was not enough room in the output buffer.

*/

ZEXTERN int ZEXPORT compress2 OF((Bytef *dest, uLongf *destLen,
const Bytef *source, uLong sourceLen,
int level));

/*

Compresses the source buffer into the destination buffer. The level parameter has the same meaning as in deflateInit. sourceLen is the byte length of the source buffer. Upon entry, destLen is the total size of the destination buffer, which must be at least the value returned by compressBound(sourceLen). Upon exit, destLen is the actual size of the compressed buffer.

compress2 returns Z_OK if success, Z_MEM_ERROR if there was not enough memory, Z_BUF_ERROR if there was not enough room in the output buffer, Z_STREAM_ERROR if the level parameter is invalid.

*/

```
ZEXTERN uLong ZEXPORT compressBound OF((uLong sourceLen));
```

/*

compressBound() returns an upper bound on the compressed size after compress() or compress2() on sourceLen bytes. It would be used before a compress() or compress2() call to allocate the destination buffer.

*/

```
ZEXTERN int ZEXPORT uncompress OF((Bytef *dest, uLongf *destLen,  
const Bytef *source, uLong sourceLen));
```

/*

Decompresses the source buffer into the destination buffer. sourceLen is the byte length of the source buffer. Upon entry, destLen is the total size of the destination buffer, which must be large enough to hold the entire uncompressed data. (The size of the uncompressed data must have been saved previously by the compressor and transmitted to the decompressor by some mechanism outside the scope of this compression library.) Upon exit, destLen is the actual size of the uncompressed buffer.

uncompress returns Z_OK if success, Z_MEM_ERROR if there was not enough memory, Z_BUF_ERROR if there was not enough room in the output buffer, or Z_DATA_ERROR if the input data was corrupted or incomplete. In the case where there is not enough room, uncompress() will fill the output buffer with the uncompressed data up to that point.

*/

```
/* gzip file access functions */
```

/*

This library supports reading and writing files in gzip (.gz) format with an interface similar to that of stdio, using the functions that start with "gz". The gzip format is different from the zlib format. gzip is a gzip wrapper, documented in RFC 1952, wrapped around a deflate stream.

*/

```
typedef struct gzFile_s *gzFile; /* semi-opaque gzip file descriptor */
```

/*

```
ZEXTERN gzFile ZEXPORT gzopen OF((const char *path, const char *mode));
```

Opens a gzip (.gz) file for reading or writing. The mode parameter is as in fopen ("rb" or "wb") but can also include a compression level ("wb9") or a strategy: 'f' for filtered data as in "wb6f", 'h' for Huffman-only

compression as in "wb1h", 'R' for run-length encoding as in "wb1R", or 'F' for fixed code compression as in "wb9F". (See the description of deflateInit2 for more information about the strategy parameter.) 'T' will request transparent writing or appending with no compression and not using the gzip format.

"a" can be used instead of "w" to request that the gzip stream that will be written be appended to the file. "+" will result in an error, since reading and writing to the same gzip file is not supported.

These functions, as well as gzip, will read and decode a sequence of gzip streams in a file. The append function of gzopen() can be used to create such a file. (Also see gzflush() for another way to do this.) When appending, gzopen does not test whether the file begins with a gzip stream, nor does it look for the end of the gzip streams to begin appending. gzopen will simply append a gzip stream to the existing file.

gzopen can be used to read a file which is not in gzip format; in this case gzread will directly read from the file without decompression. When reading, this will be detected automatically by looking for the magic two-byte gzip header.

gzopen returns NULL if the file could not be opened, if there was insufficient memory to allocate the gzFile state, or if an invalid mode was specified (an 'r', 'w', or 'a' was not provided, or '+' was provided). errno can be checked to determine if the reason gzopen failed was that the file could not be opened.

*/

```
ZEXTERN gzFile ZEXPORT gzopen OF((int fd, const char *mode));
```

/*

gzdopen associates a gzFile with the file descriptor fd. File descriptors are obtained from calls like open, dup, creat, pipe or fileno (if the file has been previously opened with fopen). The mode parameter is as in gzopen.

The next call of gzclose on the returned gzFile will also close the file descriptor fd, just like fclose(fdopen(fd, mode)) closes the file descriptor fd. If you want to keep fd open, use fd = dup(fd_keep); gz = gzdopen(fd, mode);. The duplicated descriptor should be saved to avoid a leak, since gzdopen does not close fd if it fails. If you are using fileno() to get the file descriptor from a FILE *, then you will have to use dup() to avoid double-close()ing the file descriptor. Both gzclose() and fclose() will close the associated file descriptor, so they need to have different file descriptors.

gzdopen returns NULL if there was insufficient memory to allocate the gzFile state, if an invalid mode was specified (an 'r', 'w', or 'a' was not provided, or '+' was provided), or if fd is -1. The file descriptor is not

used until the next gz* read, write, seek, or close operation, so gzdopen will not detect if fd is invalid (unless fd is -1).

*/

```
ZEXTERN int ZEXPORT gzbuffer OF((gzFile file, unsigned size));
```

/*

Set the internal buffer size used by this library's functions. The default buffer size is 8192 bytes. This function must be called after gzopen() or gzdopen(), and before any other calls that read or write the file. The buffer memory allocation is always deferred to the first read or write. Two buffers are allocated, either both of the specified size when writing, or one of the specified size and the other twice that size when reading. A larger buffer size of, for example, 64K or 128K bytes will noticeably increase the speed of decompression (reading).

The new buffer size also affects the maximum length for gzprintf().

gzbuffer() returns 0 on success, or -1 on failure, such as being called too late.

*/

```
ZEXTERN int ZEXPORT gzsetparams OF((gzFile file, int level, int strategy));
```

/*

Dynamically update the compression level or strategy. See the description of deflateInit2 for the meaning of these parameters.

gzsetparams returns Z_OK if success, or Z_STREAM_ERROR if the file was not opened for writing.

*/

```
ZEXTERN int ZEXPORT gzread OF((gzFile file, voidp buf, unsigned len));
```

/*

Reads the given number of uncompressed bytes from the compressed file. If the input file is not in gzip format, gzread copies the given number of bytes into the buffer directly from the file.

After reaching the end of a gzip stream in the input, gzread will continue to read, looking for another gzip stream. Any number of gzip streams may be concatenated in the input file, and will all be decompressed by gzread(). If something other than a gzip stream is encountered after a gzip stream, that remaining trailing garbage is ignored (and no error is returned).

gzread can be used to read a gzip file that is being concurrently written. Upon reaching the end of the input, gzread will return with the available data. If the error code returned by gzerror is Z_OK or Z_BUF_ERROR, then gzclearerr can be used to clear the end of file indicator in order to permit gzread to be tried again. Z_OK indicates that a gzip stream was completed on the last gzread. Z_BUF_ERROR indicates that the input file ended in the

middle of a gzip stream. Note that `gzread` does not return -1 in the event of an incomplete gzip stream. This error is deferred until `gzclose()`, which will return `Z_BUF_ERROR` if the last `gzread` ended in the middle of a gzip stream. Alternatively, `gzerror` can be used before `gzclose` to detect this case.

`gzread` returns the number of uncompressed bytes actually read, less than `len` for end of file, or -1 for error.

*/

```
ZEXTERN int ZEXPORT gzwrite OF((gzFile file,
                                voidpc buf, unsigned len));
```

/*

Writes the given number of uncompressed bytes into the compressed file. `gzwrite` returns the number of uncompressed bytes written or 0 in case of error.

*/

```
ZEXTERN int ZEXPORTVA gzprintf Z_ARG((gzFile file, const char *format, ...));
```

/*

Converts, formats, and writes the arguments to the compressed file under control of the format string, as in `fprintf`. `gzprintf` returns the number of uncompressed bytes actually written, or 0 in case of error. The number of uncompressed bytes written is limited to 8191, or one less than the buffer size given to `gzbuffer()`. The caller should assure that this limit is not exceeded. If it is exceeded, then `gzprintf()` will return an error (0) with nothing written. In this case, there may also be a buffer overflow with unpredictable consequences, which is possible only if `zlib` was compiled with the insecure functions `sprintf()` or `vsprintf()` because the secure `snprintf()` or `vsnprintf()` functions were not available. This can be determined using `zlibCompileFlags()`.

*/

```
ZEXTERN int ZEXPORT gzputs OF((gzFile file, const char *s));
```

/*

Writes the given null-terminated string to the compressed file, excluding the terminating null character.

`gzputs` returns the number of characters written, or -1 in case of error.

*/

```
ZEXTERN char * ZEXPORT gzgets OF((gzFile file, char *buf, int len));
```

/*

Reads bytes from the compressed file until `len-1` characters are read, or a newline character is read and transferred to `buf`, or an end-of-file condition is encountered. If any characters are read or if `len == 1`, the string is terminated with a null character. If no characters are read due to an end-of-file or `len < 1`, then the buffer is left untouched.

gzgets returns buf which is a null-terminated string, or it returns NULL for end-of-file or in case of error. If there was an error, the contents at buf are indeterminate.

*/

```
ZEXTERN int ZEXPORT gzputc OF((gzFile file, int c));
```

/*

Writes c, converted to an unsigned char, into the compressed file. gzputc returns the value that was written, or -1 in case of error.

*/

```
ZEXTERN int ZEXPORT gzgetc OF((gzFile file));
```

/*

Reads one byte from the compressed file. gzgetc returns this byte or -1 in case of end of file or error. This is implemented as a macro for speed. As such, it does not do all of the checking the other functions do. I.e. it does not check to see if file is NULL, nor whether the structure file points to has been clobbered or not.

*/

```
ZEXTERN int ZEXPORT gzungetc OF((int c, gzFile file));
```

/*

Push one character back onto the stream to be read as the first character on the next read. At least one character of push-back is allowed.

gzungetc() returns the character pushed, or -1 on failure. gzungetc() will fail if c is -1, and may fail if a character has been pushed but not read yet. If gzungetc is used immediately after gzopen or gzopen, at least the output buffer size of pushed characters is allowed. (See gzbuffer above.) The pushed character will be discarded if the stream is repositioned with gzseek() or gzrewind().

*/

```
ZEXTERN int ZEXPORT gzflush OF((gzFile file, int flush));
```

/*

Flushes all pending output into the compressed file. The parameter flush is as in the deflate() function. The return value is the zlib error number (see function gzerror below). gzflush is only permitted when writing.

If the flush parameter is Z_FINISH, the remaining data is written and the gzip stream is completed in the output. If gzwrite() is called again, a new gzip stream will be started in the output. gzread() is able to read such concatenated gzip streams.

gzflush should be called only when strictly necessary because it will degrade compression if called too often.

*/

```
/*  
ZEXTERN z_off_t ZEXPORT gzseek OF((gzFile file,  
z_off_t offset, int whence));
```

Sets the starting position for the next gzread or gzwrite on the given compressed file. The offset represents a number of bytes in the uncompressed data stream. The whence parameter is defined as in lseek(2); the value SEEK_END is not supported.

If the file is opened for reading, this function is emulated but can be extremely slow. If the file is opened for writing, only forward seeks are supported; gzseek then compresses a sequence of zeroes up to the new starting position.

gzseek returns the resulting offset location as measured in bytes from the beginning of the uncompressed stream, or -1 in case of error, in particular if the file is opened for writing and the new starting position would be before the current position.

```
*/
```

```
ZEXTERN int ZEXPORT gzrewind OF((gzFile file));
```

```
/*
```

Rewinds the given file. This function is supported only for reading.

gzrewind(file) is equivalent to (int)gzseek(file, 0L, SEEK_SET)

```
*/
```

```
/*
```

```
ZEXTERN z_off_t ZEXPORT gztell OF((gzFile file));
```

Returns the starting position for the next gzread or gzwrite on the given compressed file. This position represents a number of bytes in the uncompressed data stream, and is zero when starting, even if appending or reading a gzip stream from the middle of a file using gzdopen().

gztell(file) is equivalent to gzseek(file, 0L, SEEK_CUR)

```
*/
```

```
/*
```

```
ZEXTERN z_off_t ZEXPORT gzoffset OF((gzFile file));
```

Returns the current offset in the file being read or written. This offset includes the count of bytes that precede the gzip stream, for example when appending or when using gzdopen() for reading. When reading, the offset does not include as yet unused buffered input. This information can be used for a progress indicator. On error, gzoffset() returns -1.

```
*/
```

```
ZEXTERN int ZEXPORT gzeof OF((gzFile file));
```

```
/*
```

Returns true (1) if the end-of-file indicator has been set while reading, false (0) otherwise. Note that the end-of-file indicator is set only if the read tried to go past the end of the input, but came up short. Therefore, just like feof(), gzeof() may return false even if there is no more data to read, in the event that the last read request was for the exact number of bytes remaining in the input file. This will happen if the input file size is an exact multiple of the buffer size.

If gzeof() returns true, then the read functions will return no more data, unless the end-of-file indicator is reset by gzclearerr() and the input file has grown since the previous end of file was detected.

```
*/
```

```
ZEXTERN int ZEXPORT gzdirect OF((gzFile file));
```

```
/*
```

Returns true (1) if file is being copied directly while reading, or false (0) if file is a gzip stream being decompressed.

If the input file is empty, gzdirect() will return true, since the input does not contain a gzip stream.

If gzdirect() is used immediately after gzopen() or gzdopen() it will cause buffers to be allocated to allow reading the file to determine if it is a gzip file. Therefore if gzbuffer() is used, it should be called before gzdirect().

When writing, gzdirect() returns true (1) if transparent writing was requested ("wT" for the gzopen() mode), or false (0) otherwise. (Note: gzdirect() is not needed when writing. Transparent writing must be explicitly requested, so the application already knows the answer. When linking statically, using gzdirect() will include all of the zlib code for gzip file reading and decompression, which may not be desired.)

```
*/
```

```
ZEXTERN int ZEXPORT gzclose OF((gzFile file));
```

```
/*
```

Flushes all pending output if necessary, closes the compressed file and deallocates the (de)compression state. Note that once file is closed, you cannot call gzerror with file, since its structures have been deallocated. gzclose must not be called more than once on the same file, just as free must not be called more than once on the same allocation.

gzclose will return Z_STREAM_ERROR if file is not valid, Z_ERRNO on a file operation error, Z_MEM_ERROR if out of memory, Z_BUF_ERROR if the last read ended in the middle of a gzip stream, or Z_OK on success.

```
*/
```

```

ZEXTERN int ZEXPORT gzclose_r OF((gzFile file));
ZEXTERN int ZEXPORT gzclose_w OF((gzFile file));
/*
    Same as gzclose(), but gzclose_r() is only for use when reading, and
    gzclose_w() is only for use when writing or appending. The advantage to
    using these instead of gzclose() is that they avoid linking in zlib
    compression or decompression code that is not used when only reading or only
    writing respectively. If gzclose() is used, then both compression and
    decompression code will be included the application when linking to a static
    zlib library.
*/

ZEXTERN const char * ZEXPORT gzerror OF((gzFile file, int *errnum));
/*
    Returns the error message for the last error which occurred on the given
    compressed file. errnum is set to zlib error number. If an error occurred
    in the file system and not in the compression library, errnum is set to
    Z_ERRNO and the application may consult errno to get the exact error code.

    The application must not modify the returned string. Future calls to
    this function may invalidate the previously returned string. If file is
    closed, then the string previously returned by gzerror will no longer be
    available.

    gzerror() should be used to distinguish errors from end-of-file for those
    functions above that do not distinguish those cases in their return values.
*/

ZEXTERN void ZEXPORT gzclearerr OF((gzFile file));
/*
    Clears the error and end-of-file flags for file. This is analogous to the
    clearerr() function in stdio. This is useful for continuing to read a gzip
    file that is being written concurrently.
*/

#endif /* !Z_SOLO */

        /* checksum functions */

/*
    These functions are not related to compression but are exported
    anyway because they might be useful in applications using the compression
    library.
*/

ZEXTERN uLong ZEXPORT Adler32 OF((uLong Adler, const Bytef *buf, uInt len));
/*

```

Update a running Adler-32 checksum with the bytes buf[0..len-1] and return the updated checksum. If buf is Z_NULL, this function returns the required initial value for the checksum.

An Adler-32 checksum is almost as reliable as a CRC32 but can be computed much faster.

Usage example:

```
uLong Adler = Adler32(0L, Z_NULL, 0);

while (read_buffer(buffer, length) != EOF) {
    Adler = Adler32(Adler, buffer, length);
}
if (Adler != original_Adler) error();
*/

/*
ZEXTERN uLong ZEXPORT Adler32_combine OF((uLong Adler1, uLong Adler2,
                                         z_off_t len2));
```

Combine two Adler-32 checksums into one. For two sequences of bytes, seq1 and seq2 with lengths len1 and len2, Adler-32 checksums were calculated for each, Adler1 and Adler2. Adler32_combine() returns the Adler-32 checksum of seq1 and seq2 concatenated, requiring only Adler1, Adler2, and len2. Note that the z_off_t type (like off_t) is a signed integer. If len2 is negative, the result has no meaning or utility.

```
*/

ZEXTERN uLong ZEXPORT Crc32 OF((uLong Crc, const Bytef *buf, uInt len));
/*
```

Update a running CRC-32 with the bytes buf[0..len-1] and return the updated CRC-32. If buf is Z_NULL, this function returns the required initial value for the CRC. Pre- and post-conditioning (one's complement) is performed within this function so it shouldn't be done by the application.

Usage example:

```
uLong Crc = Crc32(0L, Z_NULL, 0);

while (read_buffer(buffer, length) != EOF) {
    Crc = Crc32(Crc, buffer, length);
}
if (Crc != original_Crc) error();
*/

/*
```

```
ZEXTERN uLong ZEXPORT crc32_combine OF((uLong crc1, uLong crc2, z_off_t len2));
```

Combine two CRC-32 check values into one. For two sequences of bytes, seq1 and seq2 with lengths len1 and len2, CRC-32 check values were calculated for each, crc1 and crc2. crc32_combine() returns the CRC-32 check value of seq1 and seq2 concatenated, requiring only crc1, crc2, and len2.

```
*/
```

```
/* various hacks, don't look :) */
```

```
/* deflateInit and inflateInit are macros to allow checking the zlib version
```

```
* and the compiler's view of z_stream:
```

```
*/
```

```
ZEXTERN int ZEXPORT deflateInit_ OF((z_streamp strm, int level,  
                                     const char *version, int stream_size));
```

```
ZEXTERN int ZEXPORT inflateInit_ OF((z_streamp strm,  
                                     const char *version, int stream_size));
```

```
ZEXTERN int ZEXPORT deflateInit2_ OF((z_streamp strm, int level, int method,  
                                     int windowBits, int memLevel,  
                                     int strategy, const char *version,  
                                     int stream_size));
```

```
ZEXTERN int ZEXPORT inflateInit2_ OF((z_streamp strm, int windowBits,  
                                       const char *version, int stream_size));
```

```
ZEXTERN int ZEXPORT inflateBackInit_ OF((z_streamp strm, int windowBits,  
                                         unsigned char FAR *window,  
                                         const char *version,  
                                         int stream_size));
```

```
#define deflateInit(strm, level) \  
    deflateInit_((strm), (level), ZLIB_VERSION, (int)sizeof(z_stream))
```

```
#define inflateInit(strm) \  
    inflateInit_((strm), ZLIB_VERSION, (int)sizeof(z_stream))
```

```
#define deflateInit2(strm, level, method, windowBits, memLevel, strategy) \  
    deflateInit2_((strm),(level),(method),(windowBits),(memLevel),\  
                 (strategy), ZLIB_VERSION, (int)sizeof(z_stream))
```

```
#define inflateInit2(strm, windowBits) \  
    inflateInit2_((strm), (windowBits), ZLIB_VERSION, \  
                 (int)sizeof(z_stream))
```

```
#define inflateBackInit(strm, windowBits, window) \  
    inflateBackInit_((strm), (windowBits), (window), \  
                    ZLIB_VERSION, (int)sizeof(z_stream))
```

```
#ifndef Z_SOLO
```

```
/* gzgetc() macro and its supporting function and exposed data structure. Note
```

```
* that the real internal state is much larger than the exposed structure.
```

```
* This abbreviated structure exposes just enough for the gzgetc() macro. The
```



```

* user should not mess with these exposed elements, since their names or
* behavior could change in the future, perhaps even capriciously. They can
* only be used by the gzgetc() macro. You have been warned.
*/
struct gzFile_s {
    unsigned have;
    unsigned char *next;
    z_off64_t pos;
};
ZEXTERN int ZEXPORT gzgetc_OF((gzFile file));
#define gzgetc(g) \
    ((g)->have ? ((g)->have--, (g)->pos++, *((g)->next)++) : gzgetc_(g))

/* provide 64-bit offset functions if _LARGEFILE64_SOURCE defined, and/or
* change the regular functions to 64 bits if _FILE_OFFSET_BITS is 64 (if
* both are true, the application gets the *64 functions, and the regular
* functions are changed to 64 bits) -- in case these are set on systems
* without large file support, _LFS64_LARGEFILE must also be true
*/
#if defined(_LARGEFILE64_SOURCE) && _LFS64_LARGEFILE-0
    ZEXTERN gzFile ZEXPORT gzopen64 OF((const char *, const char *));
    ZEXTERN z_off64_t ZEXPORT gzseek64 OF((gzFile, z_off64_t, int));
    ZEXTERN z_off64_t ZEXPORT gztell64 OF((gzFile));
    ZEXTERN z_off64_t ZEXPORT gzoffset64 OF((gzFile));
    ZEXTERN uLong ZEXPORT Adler32_combine64 OF((uLong, uLong, z_off64_t));
    ZEXTERN uLong ZEXPORT CRC32_combine64 OF((uLong, uLong, z_off64_t));
#endif

#if !defined(ZLIB_INTERNAL) && _FILE_OFFSET_BITS-0 == 64 && _LFS64_LARGEFILE-0
#   ifdef Z_PREFIX_SET
#       define z_gzopen z_gzopen64
#       define z_gzseek z_gzseek64
#       define z_gztell z_gztell64
#       define z_gzoffset z_gzoffset64
#       define z_adler32_combine z_adler32_combine64
#       define z_crc32_combine z_crc32_combine64
#   else
#       define gzopen gzopen64
#       define gzseek gzseek64
#       define gztell gztell64
#       define gzoffset gzoffset64
#       define Adler32_combine Adler32_combine64
#       define CRC32_combine CRC32_combine64
#   endif
#   ifndef _LARGEFILE64_SOURCE
        ZEXTERN gzFile ZEXPORT gzopen64 OF((const char *, const char *));
        ZEXTERN z_off_t ZEXPORT gzseek64 OF((gzFile, z_off_t, int));
        ZEXTERN z_off_t ZEXPORT gztell64 OF((gzFile));
    
```

```

ZEXTERN z_off_t ZEXPORT gzoffset64 OF((gzFile));
ZEXTERN uLong ZEXPORT Adler32_combine64 OF((uLong, uLong, z_off_t));
ZEXTERN uLong ZEXPORT crc32_combine64 OF((uLong, uLong, z_off_t));
# endif
#else
ZEXTERN gzFile ZEXPORT gzopen OF((const char *, const char *));
ZEXTERN z_off_t ZEXPORT gzseek OF((gzFile, z_off_t, int));
ZEXTERN z_off_t ZEXPORT gztell OF((gzFile));
ZEXTERN z_off_t ZEXPORT gzoffset OF((gzFile));
ZEXTERN uLong ZEXPORT Adler32_combine OF((uLong, uLong, z_off_t));
ZEXTERN uLong ZEXPORT crc32_combine OF((uLong, uLong, z_off_t));
#endif

#else /* Z_SOLO */

ZEXTERN uLong ZEXPORT Adler32_combine OF((uLong, uLong, z_off_t));
ZEXTERN uLong ZEXPORT crc32_combine OF((uLong, uLong, z_off_t));

#endif /* !Z_SOLO */

/* hack for buggy compilers */
#if !defined(ZUTIL_H) && !defined(NO_DUMMY_DECL)
    struct internal_state {int dummy;};
#endif

/* undocumented functions */
ZEXTERN const char * ZEXPORT zError OF((int));
ZEXTERN int ZEXPORT inflateSyncPoint OF((z_streamp));
ZEXTERN const uLongf * ZEXPORT get_crc_table OF((void));
ZEXTERN int ZEXPORT inflateUndermine OF((z_streamp, int));
ZEXTERN int ZEXPORT inflateResetKeep OF((z_streamp));
ZEXTERN int ZEXPORT deflateResetKeep OF((z_streamp));
#ifdef Z_SOLO
ZEXTERN unsigned long ZEXPORT gzflags OF((void));
#endif

#ifdef __cplusplus
}
#endif

#endif /* ZLIB_H */

```

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1.36 libxxf86misc 1.0.3 7.1.el7

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1.37 libpciaccess 0.14 1.el7

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1.38 python-lxml 3.2.1-4.el7

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1.41 perl-constant 1.27 2.el7

1.42 perl-timedate 2.30 2.el7

1.43 cavium-liquidio 3.1.2

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1.45 pcre 8.38

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Written by: Philip Hazel
Email local part: ph10
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1.46 gconf 3.2.6 8.el7

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1.47 linux-kernel 3.10.0-1160.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
- * details.
- *
- *
- *
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- *
- * M. Welsh, 6 July 1996
- *
- *
- * /

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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>

for his LIRC infrared handler

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...and all the other dbox2 people

for many bugfixes in the generic DVB Core, frontend drivers and their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>

for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>

for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>

for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>

Roberto Ragusa <r.ragusa@libero.it>

Augusto Cardoso <augusto@carhil.net>

for all the work for the FlexCopII chipset by B2C2, Inc.

Davor Emard <emard@softhome.net>

for his work on the budget drivers, the demux code, the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>

for his work on calculating and checking the crc's for the TechnoTrend/Hauppauge DEC driver firmware

Michael Dreher <michael@5dot1.de>

Andreas 'randy' Weinberger

for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>

for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>

for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>

for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>

for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufky@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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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.

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.
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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

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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.

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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1.56 libyamI 0.1.4 11.eI7_0

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1.57 xfsprogs 4.5.0-22.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.)

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

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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.

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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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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```

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```

```
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1.58 libdaemon 0.14 7.e17

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1.59 perl-digest-md5 2.52 3.e17

1.60 guava 2.22.1

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jar/jersey/repackaged/com/google/common/hash/HashFunction.java

* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/collect/Queues.java

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jar/jersey/repackaged/com/google/common/hash/BloomFilterStrategies.java

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jar/jersey/repackaged/com/google/common/hash/Hashing.java

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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/hash/Crc32cHashFunction.java

* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/hash/PrimitiveSink.java

* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/hash/Funnel.java

* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/hash/Murmur3_32HashFunction.java

* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/hash/Murmur3_128HashFunction.java

* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/hash/Hasher.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/hash/HashCode.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/hash/MessageDigestHashFunction.java
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/AbstractSortedMultiset.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/hash/Funnels.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/hash/HashingOutputStream.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/DescendingImmutableSortedMultiset.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/EmptyImmutableSortedMultiset.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/RegularContiguousSet.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/BoundType.java
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/base/Utf8.java

* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/AbstractTable.java

* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/FilteredMultimapValues.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/base/Verify.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/base/VerifyException.java
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/math/LongMath.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/net/HttpHeaders.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/AbstractListeningExecutorService.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/AsyncFunction.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/cache/ForwardingCache.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/cache/CacheLoader.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/WrappingExecutorService.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/cache/AbstractLoadingCache.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/cache/CacheBuilderSpec.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/reflect/TypeParameter.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-

jar/jersey/repackaged/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/Uninterruptibles.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/collect/RegularImmutableMultiset.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/math/BigIntegerMath.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/net/MediaType.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/base/Optional.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/ExecutionError.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/base/PairwiseEquivalence.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/AbstractScheduledService.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/cache/package-info.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/reflect/Types.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/math/DoubleMath.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/base/Present.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/hash/AbstractCompositeHashFunction.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/math/DoubleUtils.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/net/HostAndPort.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/cache/CacheStats.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/collect/WellBehavedMap.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/base/Enums.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/collect/GwtTransient.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/CycleDetectingLockFactory.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/cache/LoadingCache.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/ForwardingCheckedFuture.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-

jar/jersey/repackaged/com/google/common/math/package-info.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/cache/ForwardingLoadingCache.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/cache/RemovalNotification.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/math/IntMath.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/AtomicLongMap.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/ForwardingExecutorService.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/cache/RemovalCause.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/cache/Cache.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/cache/RemovalListener.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/UncheckedExecutionException.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/base/Absent.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/cache/RemovalListeners.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/FutureCallback.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/base/Ticker.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/FutureFallback.java
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/base/FunctionalEquivalence.java

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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/Runnables.java

* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/io/CharSequenceReader.java

* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/eventbus/SubscriberExceptionHandler.java

* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/MultimapBuilder.java

* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/reflect/TypeVisitor.java

* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/ImmutableMapEntry.java

* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/WrappingScheduledExecutorService.java

* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/thirdparty/publicsuffix/PublicSuffixType.java

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*/
/*
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
* following header:
*
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* hereby disclaims copyright to this source code.
*/
```

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```
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/collect/Hashing.java
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```
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/collect/Platform.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/primitives/Floats.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/collect/StandardTable.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
```

jar/jersey/repackaged/com/google/common/primitives/Ints.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/CheckedFuture.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/collect/PeekingIterator.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/net/PercentEscaper.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/net/InetAddresses.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/AbstractCheckedFuture.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/collect/EmptyImmutableSortedSet.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/collect/SingletonImmutableBiMap.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/collect/FluentIterable.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/base/Converter.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/collect/ImmutableMapValues.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/collect/ImmutableMap.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/escape/Escaper.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/SerializingExecutor.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/collect/ImmutableBiMap.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/collect/CollectPreconditions.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/collect/Tables.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/collect/HashBasedTable.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/collect/ImmutableMapKeySet.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/escape/UnicodeEscaper.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/primitives/Shorts.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/base/CharMatcher.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/collect/ImmutableListMultimap.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/collect/StandardRowSortedTable.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-

jar/jersey/repackaged/com/google/common/primitives/Bytes.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/base/Joiner.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/collect/Collections2.java
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
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jar/jersey/repackaged/com/google/common/primitives/Booleans.java
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/ForwardingSortedMap.java
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/LinkedHashMultiset.java
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/AbstractMapBasedMultimap.java
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/HashMultimap.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/eventbus/AllowConcurrentEvents.java
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/AbstractIterator.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/Multimaps.java

* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/NullsFirstOrdering.java
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/AbstractMapBasedMultiset.java
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/ClassToInstanceMap.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/Maps.java
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/LexicographicalOrdering.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/Sets.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/Iterators.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/base/Objects.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/CompoundOrdering.java
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/io/Resources.java

* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/ReverseOrdering.java

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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/MutableClassToInstanceMap.java

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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/eventbus/EventSubscriber.java

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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/EnumHashBiMap.java

* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/AbstractMapEntry.java

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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/SetMultimap.java

* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/base/FinalizablePhantomReference.java

* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/base/FinalizableReference.java

* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/AbstractSortedSetMultimap.java

* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/AbstractSetMultimap.java

* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/base/Predicates.java

* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/eventbus/AnnotatedSubscriberFinder.java

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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/ForwardingMultiset.java

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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/SortedSetMultimap.java
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/ImmutableList.java
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* This method was rewritten in Java from an intermediate step of the Murmur hash function in
* <http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp>, which contained the
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/reflect/MutableTypeToInstanceMap.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/reflect/TypeCapture.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/collect/FilteredEntrySetMultimap.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/collect/ForwardingDeque.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/collect/FilteredSetMultimap.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/collect/ForwardingImmutableList.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/ListenableScheduledFuture.java
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jar/jersey/repackaged/com/google/common/collect/SortedLists.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/collect/ComputingConcurrentHashMap.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/escape/ArrayBasedEscaperMap.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/io/ByteArrayDataInput.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/AbstractService.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/cache/LocalCache.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/RegularImmutableSortedSet.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/reflect/TypeResolver.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/RegularImmutableList.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-

jar/jersey/repackaged/com/google/common/collect/ComputationException.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/collect/ImmutableEnumSet.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/net/InternetDomainName.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/escape/ArrayBasedUnicodeEscaper.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/primitives/UnsignedBytes.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
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jar/jersey/repackaged/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
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jar/jersey/repackaged/com/google/common/collect/GeneralRange.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/primitives/ParseRequest.java
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jar/jersey/repackaged/com/google/common/collect/SortedIterable.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
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jar/jersey/repackaged/com/google/common/primitives/UnsignedLongs.java
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
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* As of 2010/06/11, this method is identical to the (package private) hash
* method in OpenJDK 7's java.util.HashMap class.

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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/base/MoreObjects.java
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/escape/CharEscaperBuilder.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/Futures.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/base/CaseFormat.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-

jar/jersey/repackaged/com/google/common/io/AppendableWriter.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
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jar/jersey/repackaged/com/google/common/util/concurrent/TimeLimiter.java
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/util/concurrent/MoreExecutors.java
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/collect/DenseImmutableTable.java

* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/collect/RegularImmutableTable.java

* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/collect/SparseImmutableTable.java

* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/collect/MapMaker.java

* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/hash/ChecksumHashFunction.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/hash/SipHashFunction.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/ImmutableRangeMap.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/FilteredKeyMultimap.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/io/BaseEncoding.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/io/GwtWorkarounds.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-jar/jersey/repackaged/com/google/common/collect/CartesianList.java
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/collect/EnumMultiset.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/base/Preconditions.java
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* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1345024366_1657878690.3374152/0/jersey-guava-2-22-1-sources-
jar/jersey/repackaged/com/google/common/cache/Striped64.java

1.61 popt 1.13 16.el7

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1.62 python-iniparse 0.4 9.e17

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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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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
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1.67 usb-modeswitch-data 20170806 1.el7

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1.69 rt-ha 2.2.10

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```

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<signature of Ty Coon>, 1 April 1989
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1.72 xmlsec 1.2.20 7.e17_4

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1.73 cloud-init 19.4-7.el7.centos.6

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1.76 tzdata 2022a-1.e17

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1.77 cffi 1.6.0

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1.78 jersey-server 2.22.1

1.79 pkg-config 0.27.1 4.el7

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Here is a list of the main contributors to lm-sensors version 3.

- * Frodo Looijaard
Original author of libsensors, sensors-detect, sensors and isadump.
- * Merlin Hughes

Original author of sensord.

* Bob Schlaermann

Dynamic chip feature detection (a.k.a. generic chip support) in
libsensors and sensors.

* Mark M. Hoffman

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.

Support for multiple configuration files in libsensors.

1.82 nfs4-acl-tools 0.3.3-21.el7

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1.83 wpa-supPLICant 2.6-12.e17_9.2

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1.85 libiscsi 1.9.0 7.e17

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procset Adobe_CoolType_Utility_T42 1.0 0

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```
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# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
# NB: Portions of this file are extracted from open-source projects
# covered by permissive licenses. Use of this file for testing is clearly
# allowed. However, do not incorporate the text of this one file into
# end-products without checking the licenses on the open-source projects
# from which this code was extracted. This warning applies to this one
# file only - not the bulk of the SQLite source code and tests.
#
#*****
#
# This file contains large and complex schemas obtained from open-source
# software projects. The schemas are parsed just to make sure that nothing
# breaks in the parser logic.
#
# These tests merely verify that the parse occurs without error.
# No attempt is made to verify correct operation of the resulting schema
# and statements.
#

set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Schema and query extracted from Skrooge.org.
#
do_test fuzz-oss1-skrooge {
  db eval {
    CREATE TABLE parameters (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_uuid_parent
    TEXT NOT NULL DEFAULT "",t_name TEXT NOT NULL,t_value TEXT NOT NULL DEFAULT "",b_blob
    BLOB,d_lastmodifdate DATE NOT NULL DEFAULT CURRENT_TIMESTAMP,i_tmp INTEGER NOT NULL
    DEFAULT 0);
    CREATE TABLE doctransaction (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT
    NOT NULL,t_mode VARCHAR(1) DEFAULT 'U' CHECK (t_mode IN ('U', 'R')),d_date DATE NOT
    NULL,t_savestep VARCHAR(1) DEFAULT 'N' CHECK (t_savestep IN ('Y', 'N')),i_parent INTEGER,
    t_refreshviews VARCHAR(1) DEFAULT 'Y' CHECK (t_refreshviews IN ('Y', 'N')));
    CREATE TABLE doctransactionitem (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,
    rd_doctransaction_id INTEGER NOT NULL,i_object_id INTEGER NOT NULL,t_object_table TEXT NOT
    NULL,t_action VARCHAR(1) DEFAULT 'T' CHECK (t_action IN ('T', 'U', 'D')),t_sqlorder TEXT NOT NULL
    DEFAULT "");
```

```

CREATE TABLE doctransactionmsg (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,
rd_doctransaction_id INTEGER NOT NULL,t_message TEXT NOT NULL DEFAULT "",t_popup VARCHAR(1)
DEFAULT 'Y' CHECK (t_popup IN ('Y', 'N')));
CREATE TABLE unit(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT
NULL,t_symbol TEXT NOT NULL DEFAULT "",t_country TEXT NOT NULL DEFAULT "",t_type VARCHAR(1)
NOT NULL DEFAULT 'C' CHECK (t_type IN ('1', '2', 'C', 'S', 'I', 'O')),t_internet_code TEXT NOT NULL
DEFAULT "",i_nbdecimal INT NOT NULL DEFAULT 2,rd_unit_id INTEGER NOT NULL DEFAULT 0, t_source
TEXT NOT NULL DEFAULT "");
CREATE TABLE unitvalue(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rd_unit_id
INTEGER NOT NULL,d_date DATE NOT NULL,f_quantity FLOAT NOT NULL CHECK (f_quantity>=0));
CREATE TABLE bank (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT
NULL DEFAULT "",t_bank_number TEXT NOT NULL DEFAULT "",t_icon TEXT NOT NULL DEFAULT "");
CREATE TABLE interest(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rd_account_id
INTEGER NOT NULL,d_date DATE NOT NULL,f_rate FLOAT NOT NULL CHECK
(f_rate>=0),t_income_value_date_mode VARCHAR(1) NOT NULL DEFAULT 'F' CHECK
(t_income_value_date_mode IN ('F', '0', '1', '2', '3', '4', '5')),t_expenditure_value_date_mode VARCHAR(1) NOT
NULL DEFAULT 'F' CHECK (t_expenditure_value_date_mode IN ('F', '0', '1', '2', '3', '4', '5')),t_base VARCHAR(3)
NOT NULL DEFAULT '24' CHECK (t_base IN ('24', '360', '365')));
CREATE TABLE operation(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,i_group_id
INTEGER NOT NULL DEFAULT 0,i_number INTEGER DEFAULT 0 CHECK (i_number>=0),d_date DATE
NOT NULL DEFAULT '0000-00-00',rd_account_id INTEGER NOT NULL,t_mode TEXT NOT NULL
DEFAULT "",r_payee_id INTEGER NOT NULL DEFAULT 0,t_comment TEXT NOT NULL DEFAULT
"",rc_unit_id INTEGER NOT NULL,t_status VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_status IN ('N',
'P', 'Y')),t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')),t_imported
VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_imported IN ('Y', 'N', 'P', 'T')),t_template VARCHAR(1)
NOT NULL DEFAULT 'N' CHECK (t_template IN ('Y', 'N')),t_import_id TEXT NOT NULL DEFAULT "",i_tmp
INTEGER NOT NULL DEFAULT 0,r_recurrentoperation_id INTEGER NOT NULL DEFAULT 0);
CREATE TABLE operationbalance(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,f_balance
FLOAT NOT NULL DEFAULT 0,r_operation_id INTEGER NOT NULL);
CREATE TABLE refund (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT
NULL DEFAULT "",t_comment TEXT NOT NULL DEFAULT "",t_close VARCHAR(1) DEFAULT 'N' CHECK
(t_close IN ('Y', 'N')));
CREATE TABLE payee (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT
NULL DEFAULT "",t_address TEXT NOT NULL DEFAULT "", t_bookmarked VARCHAR(1) NOT NULL
DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')));
CREATE TABLE suboperation(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_comment
TEXT NOT NULL DEFAULT "",rd_operation_id INTEGER NOT NULL,r_category_id INTEGER NOT NULL
DEFAULT 0,f_value FLOAT NOT NULL DEFAULT 0.0,i_tmp INTEGER NOT NULL DEFAULT 0,r_refund_id
INTEGER NOT NULL DEFAULT 0, t_formula TEXT NOT NULL DEFAULT "");
CREATE TABLE rule (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_description TEXT
NOT NULL DEFAULT "",t_definition TEXT NOT NULL DEFAULT "",t_action_description TEXT NOT NULL
DEFAULT "",t_action_definition TEXT NOT NULL DEFAULT "",t_action_type VARCHAR(1) DEFAULT 'S'
CHECK (t_action_type IN ('S', 'U', 'A')),t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK
(t_bookmarked IN ('Y', 'N')),f_sortorder FLOAT);
CREATE TABLE budget (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rc_category_id
INTEGER NOT NULL DEFAULT 0,t_including_subcategories TEXT NOT NULL DEFAULT 'N' CHECK
(t_including_subcategories IN ('Y', 'N')),f_budgeted FLOAT NOT NULL DEFAULT 0.0,f_budgeted_modified
FLOAT NOT NULL DEFAULT 0.0,f_transferred FLOAT NOT NULL DEFAULT 0.0,i_year INTEGER NOT

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NULL DEFAULT 2010,i_month INTEGER NOT NULL DEFAULT 0 CHECK (i_month>=0 AND
i_month<=12));
CREATE TABLE budgetcategory(id INTEGER NOT NULL DEFAULT 0,id_category INTEGER NOT NULL
DEFAULT 0);
CREATE TABLE budgetrule (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rc_category_id
INTEGER NOT NULL DEFAULT 0,t_category_condition TEXT NOT NULL DEFAULT 'Y' CHECK
(t_category_condition IN ('Y', 'N')),t_year_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_year_condition
IN ('Y', 'N')),i_year INTEGER NOT NULL DEFAULT 2010,i_month INTEGER NOT NULL DEFAULT 0
CHECK (i_month>=0 AND i_month<=12),t_month_condition TEXT NOT NULL DEFAULT 'Y' CHECK
(t_month_condition IN ('Y', 'N')),i_condition INTEGER NOT NULL DEFAULT 0 CHECK (i_condition IN (-
1,0,1)),f_quantity FLOAT NOT NULL DEFAULT 0.0,t_absolute TEXT NOT NULL DEFAULT 'Y' CHECK
(t_absolute IN ('Y', 'N')),rc_category_id_target INTEGER NOT NULL DEFAULT 0,t_category_target TEXT NOT
NULL DEFAULT 'Y' CHECK (t_category_target IN ('Y', 'N')),t_rule TEXT NOT NULL DEFAULT 'N' CHECK
(t_rule IN ('N', 'C', 'Y')));
CREATE TABLE "recurrentoperation" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,d_date
DATE NOT NULL DEFAULT '0000-00-00',rd_operation_id INTEGER NOT NULL,i_period_increment
INTEGER NOT NULL DEFAULT 1 CHECK (i_period_increment>=0),t_period_unit TEXT NOT NULL
DEFAULT 'M' CHECK (t_period_unit IN ('D', 'W', 'M', 'Y')),t_auto_write VARCHAR(1) DEFAULT 'Y' CHECK
(t_auto_write IN ('Y', 'N')),i_auto_write_days INTEGER NOT NULL DEFAULT 5 CHECK
(i_auto_write_days>=0),t_warn VARCHAR(1) DEFAULT 'Y' CHECK (t_warn IN ('Y', 'N')),i_warn_days
INTEGER NOT NULL DEFAULT 5 CHECK (i_warn_days>=0),t_times VARCHAR(1) DEFAULT 'N' CHECK
(t_times IN ('Y', 'N')),i_nb_times INTEGER NOT NULL DEFAULT 1 CHECK (i_nb_times>=0));
CREATE TABLE "category" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT
NOT NULL DEFAULT " CHECK (t_name NOT LIKE '% > %'),t_fullname TEXT,rd_category_id
INT,t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')));
CREATE TABLE "account"(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT
NULL,t_number TEXT NOT NULL DEFAULT ",t_agency_number TEXT NOT NULL DEFAULT
",t_agency_address TEXT NOT NULL DEFAULT ",t_comment TEXT NOT NULL DEFAULT ",t_close
VARCHAR(1) DEFAULT 'N' CHECK (t_close IN ('Y', 'N')),t_type VARCHAR(1) NOT NULL DEFAULT 'C'
CHECK (t_type IN ('C', 'D', 'A', 'T', 'L', 'W', 'O')),t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK
(t_bookmarked IN ('Y', 'N')),rd_bank_id INTEGER NOT NULL);
CREATE TABLE "node" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT
NULL DEFAULT " CHECK (t_name NOT LIKE '% > %'),t_fullname TEXT,t_icon TEXT DEFAULT
",f_sortorder FLOAT,t_autostart VARCHAR(1) DEFAULT 'N' CHECK (t_autostart IN ('Y', 'N')),t_data
TEXT,rd_node_id INT CONSTRAINT fk_id REFERENCES node(id) ON DELETE CASCADE);
CREATE TABLE vm_category_display_tmp(
id INT,
t_name TEXT,
t_fullname TEXT,
rd_category_id INT,
t_bookmarked TEXT,
i_NBOPERATIONS,
f_REALCURRENTAMOUNT
);
CREATE TABLE vm_budget_tmp(
id INT,
rc_category_id INT,
t_including_subcategories TEXT,

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f_budgeted REAL,
f_budgeted_modified REAL,
f_transferred REAL,
i_year INT,
i_month INT,
t_CATEGORY,
t_PERIOD,
f_CURRENTAMOUNT,
t_RULES
);
CREATE INDEX idx_doctransaction_parent ON doctransaction (i_parent);
CREATE INDEX idx_doctransactionitem_i_object_id ON doctransactionitem (i_object_id);
CREATE INDEX idx_doctransactionitem_t_object_table ON doctransactionitem (t_object_table);
CREATE INDEX idx_doctransactionitem_t_action ON doctransactionitem (t_action);
CREATE INDEX idx_doctransactionitem_rd_doctransaction_id ON doctransactionitem (rd_doctransaction_id);
CREATE INDEX idx_doctransactionitem_optimization ON doctransactionitem (rd_doctransaction_id, i_object_id,
t_object_table, t_action, id);
CREATE INDEX idx_unit_unit_id ON unitvalue(rd_unit_id);
CREATE INDEX idx_account_bank_id ON account(rd_bank_id);
CREATE INDEX idx_account_type ON account(t_type);
CREATE INDEX idx_category_category_id ON category(rd_category_id);
CREATE INDEX idx_category_t_fullname ON category(t_fullname);
CREATE INDEX idx_operation_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_tmp1_found_transfert ON operation (rc_unit_id, d_date);
CREATE INDEX idx_operation_grouped_operation_id ON operation (i_group_id);
CREATE INDEX idx_operation_i_number ON operation (i_number);
CREATE INDEX idx_operation_i_tmp ON operation (i_tmp);
CREATE INDEX idx_operation_rd_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_rc_unit_id ON operation (rc_unit_id);
CREATE INDEX idx_operation_t_status ON operation (t_status);
CREATE INDEX idx_operation_t_import_id ON operation (t_import_id);
CREATE INDEX idx_operation_t_template ON operation (t_template);
CREATE INDEX idx_operation_d_date ON operation (d_date);
CREATE INDEX idx_operationbalance_operation_id ON operationbalance (r_operation_id);
CREATE INDEX idx_suboperation_operation_id ON suboperation (rd_operation_id);
CREATE INDEX idx_suboperation_i_tmp ON suboperation (i_tmp);
CREATE INDEX idx_suboperation_category_id ON suboperation (r_category_id);
CREATE INDEX idx_suboperation_refund_id_id ON suboperation (r_refund_id);
CREATE INDEX idx_recurrentoperation_rd_operation_id ON recurrentoperation (rd_operation_id);
CREATE INDEX idx_refund_close ON refund(t_close);
CREATE INDEX idx_interest_account_id ON interest (rd_account_id);
CREATE INDEX idx_rule_action_type ON rule(t_action_type);
CREATE INDEX idx_budget_category_id ON budget(rc_category_id);
CREATE INDEX idx_budgetcategory_id ON budgetcategory (id);
CREATE INDEX idx_budgetcategory_id_category ON budgetcategory (id_category);
CREATE UNIQUE INDEX uidx_parameters_uuid_parent_name ON parameters (t_uuid_parent, t_name);
CREATE UNIQUE INDEX uidx_node_parent_id_name ON node(t_name, rd_node_id);
CREATE UNIQUE INDEX uidx_node_fullname ON node(t_fullname);

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CREATE UNIQUE INDEX uidx_unit_name ON unit(t_name);
CREATE UNIQUE INDEX uidx_unit_symbol ON unit(t_symbol);
CREATE UNIQUE INDEX uidx_unitvalue ON unitvalue(d_date,rd_unit_id);
CREATE UNIQUE INDEX uidx_bank_name ON bank(t_name);
CREATE UNIQUE INDEX uidx_account_name ON account(t_name);
CREATE UNIQUE INDEX uidx_category_parent_id_name ON category(t_name,rd_category_id);
CREATE UNIQUE INDEX uidx_category_fullname ON category(t_fullname);
CREATE UNIQUE INDEX uidx_refund_name ON refund(t_name);
CREATE UNIQUE INDEX uidx_payee_name ON payee(t_name);
CREATE UNIQUE INDEX uidx_interest ON interest(d_date,rd_account_id);
CREATE UNIQUE INDEX uidx_budget ON budget(i_year,i_month, rc_category_id);
CREATE VIEW v_node AS SELECT * from node;
CREATE VIEW v_node_displayname AS SELECT *, t_fullname AS t_displayname from node;
CREATE VIEW v_parameters_displayname AS SELECT *, t_name AS t_displayname from parameters;
CREATE TRIGGER fkdc_parameters_parameters_uuid BEFORE DELETE ON parameters FOR EACH ROW
BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||parameters'; END;
CREATE TRIGGER fkdc_node_parameters_uuid BEFORE DELETE ON node FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||node'; END;
CREATE TRIGGER cpt_node_fullname1 AFTER INSERT ON node BEGIN UPDATE node SET
t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id=" OR new.rd_node_id=0 THEN
new.t_name ELSE (SELECT c.t_fullname from node c where c.id=new.rd_node_id)||' > '||new.t_name END
WHERE id=new.id;END;
CREATE TRIGGER cpt_node_fullname2 AFTER UPDATE OF t_name, rd_node_id ON node BEGIN UPDATE
node SET t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id=" OR new.rd_node_id=0
THEN new.t_name ELSE (SELECT c.t_fullname from node c where c.id=new.rd_node_id)||' > '||new.t_name END
WHERE id=new.id;UPDATE node SET t_name=t_name WHERE rd_node_id=new.id;END;
CREATE TRIGGER fki_account_bank_rd_bank_id_id BEFORE INSERT ON account FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (bank est utilis par account)
Nom de la contrainte: fki_account_bank_rd_bank_id_id') WHERE NEW.rd_bank_id!=0 AND
NEW.rd_bank_id!=" AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
CREATE TRIGGER fku_account_bank_rd_bank_id_id BEFORE UPDATE ON account FOR EACH ROW
BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (bank est utilis par account)
Nom de la contrainte: fku_account_bank_rd_bank_id_id') WHERE NEW.rd_bank_id!=0 AND
NEW.rd_bank_id!=" AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
CREATE TRIGGER fkdc_bank_account_id_rd_bank_id BEFORE DELETE ON bank FOR EACH ROW BEGIN
DELETE FROM account WHERE account.rd_bank_id = OLD.id; END;
CREATE TRIGGER fki_budget_category_rc_category_id_id BEFORE INSERT ON budget FOR EACH ROW
BEGIN SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (category est utilis par budget)
Nom de la contrainte: fki_budget_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id!=" AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budget_category_rc_category_id_id BEFORE UPDATE ON budget FOR EACH ROW
BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budget)
Nom de la contrainte: fku_budget_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id!=" AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budget_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW
BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par budget)
Nom de la contrainte: fkd_budget_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM
budget WHERE rc_category_id = OLD.id) IS NOT NULL; END;

```

```

CREATE TRIGGER fki_budgetrule_category_rc_category_id_id BEFORE INSERT ON budgetrule FOR EACH
ROW BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (category est utilis par budgetrule)
Nom de la contrainte: fki_budgetrule_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id!=" AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_id BEFORE UPDATE ON budgetrule FOR EACH
ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budgetrule)
Nom de la contrainte: fku_budgetrule_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id!=" AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_id BEFORE DELETE ON category FOR EACH
ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par budgetrule)
Nom de la contrainte: fkd_budgetrule_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM
budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_target_id BEFORE INSERT ON budgetrule FOR
EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (category est utilis par budgetrule)
Nom de la contrainte: fki_budgetrule_category_rc_category_id_target_id') WHERE
NEW.rc_category_id_target!=0 AND NEW.rc_category_id_target!=" AND (SELECT id FROM category WHERE
id = NEW.rc_category_id_target) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_target_id BEFORE UPDATE ON budgetrule FOR
EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par
budgetrule)
Nom de la contrainte: fku_budgetrule_category_rc_category_id_target_id') WHERE
NEW.rc_category_id_target!=0 AND NEW.rc_category_id_target!=" AND (SELECT id FROM category WHERE
id = NEW.rc_category_id_target) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_target_id BEFORE DELETE ON category FOR
EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par
budgetrule)
Nom de la contrainte: fkd_budgetrule_category_rc_category_id_target_id') WHERE (SELECT
rc_category_id_target FROM budgetrule WHERE rc_category_id_target = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_category_category_rd_category_id_id BEFORE INSERT ON category FOR EACH ROW
BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (category est utilis par category)
Nom de la contrainte: fki_category_category_rd_category_id_id') WHERE NEW.rd_category_id!=0 AND
NEW.rd_category_id!=" AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fku_category_category_rd_category_id_id BEFORE UPDATE ON category FOR EACH
ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par category)
Nom de la contrainte: fku_category_category_rd_category_id_id') WHERE NEW.rd_category_id!=0 AND
NEW.rd_category_id!=" AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fkdc_category_category_id_rd_category_id BEFORE DELETE ON category FOR EACH
ROW BEGIN DELETE FROM category WHERE category.rd_category_id = OLD.id; END;
CREATE TRIGGER fki_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON
doctransactionitem FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet
(doctransaction est utilis par doctransactionitem)
Nom de la contrainte: fki_doctransactionitem_doctransaction_rd_doctransaction_id_id') WHERE
NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!=" AND (SELECT id FROM doctransaction
WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fku_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON
doctransactionitem FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet
(doctransaction est utilis par doctransactionitem)
Nom de la contrainte: fku_doctransactionitem_doctransaction_rd_doctransaction_id_id') WHERE

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NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!=" AND (SELECT id FROM doctransaction
WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fkdc_doctransaction_doctransactionitem_id_rd_doctransaction_id BEFORE DELETE ON
doctransaction FOR EACH ROW BEGIN DELETE FROM doctransactionitem WHERE
doctransactionitem.rd_doctransaction_id = OLD.id; END;
CREATE TRIGGER fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON
doctransactionmsg FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d'ajouter un objet
(doctransaction est utilis par doctransactionmsg)
Nom de la contrainte: fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id') WHERE
NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!=" AND (SELECT id FROM doctransaction
WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fku_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON
doctransactionmsg FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet
(doctransaction est utilis par doctransactionmsg)
Nom de la contrainte: fku_doctransactionmsg_doctransaction_rd_doctransaction_id_id') WHERE
NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!=" AND (SELECT id FROM doctransaction
WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fkdc_doctransaction_doctransactionmsg_id_rd_doctransaction_id BEFORE DELETE ON
doctransaction FOR EACH ROW BEGIN DELETE FROM doctransactionmsg WHERE
doctransactionmsg.rd_doctransaction_id = OLD.id; END;
CREATE TRIGGER fki_interest_account_rd_account_id_id BEFORE INSERT ON interest FOR EACH ROW
BEGIN SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (account est utilis par interest)
Nom de la contrainte: fki_interest_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND
NEW.rd_account_id!=" AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_interest_account_rd_account_id_id BEFORE UPDATE ON interest FOR EACH ROW
BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilis par interest)
Nom de la contrainte: fku_interest_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND
NEW.rd_account_id!=" AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fkdc_account_interest_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW
BEGIN DELETE FROM interest WHERE interest.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_node_node_rd_node_id_id BEFORE INSERT ON node FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (node est utilis par node)
Nom de la contrainte: fki_node_node_rd_node_id_id') WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id!="
AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fku_node_node_rd_node_id_id BEFORE UPDATE ON node FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (node est utilis par node)
Nom de la contrainte: fku_node_node_rd_node_id_id') WHERE NEW.rd_node_id!=0 AND
NEW.rd_node_id!=" AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fkdc_node_node_id_rd_node_id BEFORE DELETE ON node FOR EACH ROW BEGIN
DELETE FROM node WHERE node.rd_node_id = OLD.id; END;
CREATE TRIGGER fki_operation_account_rd_account_id_id BEFORE INSERT ON operation FOR EACH ROW
BEGIN SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (account est utilis par operation)
Nom de la contrainte: fki_operation_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND
NEW.rd_account_id!=" AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_operation_account_rd_account_id_id BEFORE UPDATE ON operation FOR EACH
ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilis par operation)
Nom de la contrainte: fku_operation_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND
NEW.rd_account_id!=" AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;

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CREATE TRIGGER fkdc_account_operation_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW
BEGIN DELETE FROM operation WHERE operation.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_operation_payee_r_payee_id_id BEFORE INSERT ON operation FOR EACH ROW
BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (payee est utilis par operation)
Nom de la contrainte: fki_operation_payee_r_payee_id_id') WHERE NEW.r_payee_id!=0 AND
NEW.r_payee_id!=" AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fku_operation_payee_r_payee_id_id BEFORE UPDATE ON operation FOR EACH ROW
BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (payee est utilis par operation)
Nom de la contrainte: fku_operation_payee_r_payee_id_id') WHERE NEW.r_payee_id!=0 AND
NEW.r_payee_id!=" AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fkd_operation_payee_r_payee_id_id BEFORE DELETE ON payee FOR EACH ROW
BEGIN UPDATE operation SET r_payee_id=0 WHERE r_payee_id=OLD.id; END;
CREATE TRIGGER fki_operation_unit_rc_unit_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (unit est utilis par operation)
Nom de la contrainte: fki_operation_unit_rc_unit_id_id') WHERE NEW.rc_unit_id!=0 AND NEW.rc_unit_id!="
AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;
CREATE TRIGGER fku_operation_unit_rc_unit_id_id BEFORE UPDATE ON operation FOR EACH ROW
BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par operation)
Nom de la contrainte: fku_operation_unit_rc_unit_id_id') WHERE NEW.rc_unit_id!=0 AND
NEW.rc_unit_id!=" AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;
CREATE TRIGGER fkd_operation_unit_rc_unit_id_id BEFORE DELETE ON unit FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dtruire un objet (unit est utilis par operation)
Nom de la contrainte: fkd_operation_unit_rc_unit_id_id') WHERE (SELECT rc_unit_id FROM operation
WHERE rc_unit_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE INSERT ON
operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (recurrentoperation
est utilis par operation)
Nom de la contrainte: fki_operation_recurrentoperation_r_recurrentoperation_id_id') WHERE
NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!=" AND (SELECT id FROM
recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fku_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE UPDATE ON
operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet
(recurrentoperation est utilis par operation)
Nom de la contrainte: fku_operation_recurrentoperation_r_recurrentoperation_id_id') WHERE
NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!=" AND (SELECT id FROM
recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fkd_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE DELETE ON
recurrentoperation FOR EACH ROW BEGIN UPDATE operation SET r_recurrentoperation_id=0 WHERE
r_recurrentoperation_id=OLD.id; END;
CREATE TRIGGER fki_operationbalance_operation_r_operation_id_id BEFORE INSERT ON operationbalance
FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (operation est utilis par
operationbalance)
Nom de la contrainte: fki_operationbalance_operation_r_operation_id_id') WHERE NEW.r_operation_id!=0 AND
NEW.r_operation_id!=" AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
CREATE TRIGGER fku_operationbalance_operation_r_operation_id_id BEFORE UPDATE ON operationbalance
FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par
operationbalance)
Nom de la contrainte: fku_operationbalance_operation_r_operation_id_id') WHERE NEW.r_operation_id!=0

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AND NEW.r_operation_id!=" AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL;
END;
CREATE TRIGGER fkd_operationbalance_operation_r_operation_id_id BEFORE DELETE ON operation FOR
EACH ROW BEGIN UPDATE operationbalance SET r_operation_id=0 WHERE r_operation_id=OLD.id; END;
CREATE TRIGGER fki_recurrentoperation_operation_rd_operation_id_id BEFORE INSERT ON
recurrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (operation
est utilis par recurrentoperation)
Nom de la contrainte: fki_recurrentoperation_operation_rd_operation_id_id) WHERE NEW.rd_operation_id!=0
AND NEW.rd_operation_id!=" AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS
NULL; END;
CREATE TRIGGER fku_recurrentoperation_operation_rd_operation_id_id BEFORE UPDATE ON
recurrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet
(operation est utilis par recurrentoperation)
Nom de la contrainte: fku_recurrentoperation_operation_rd_operation_id_id) WHERE
NEW.rd_operation_id!=0 AND NEW.rd_operation_id!=" AND (SELECT id FROM operation WHERE id =
NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_recurrentoperation_id_rd_operation_id BEFORE DELETE ON operation
FOR EACH ROW BEGIN DELETE FROM recurrentoperation WHERE recurrentoperation.rd_operation_id =
OLD.id; END;
CREATE TRIGGER fki_suboperation_operation_rd_operation_id_id BEFORE INSERT ON suboperation FOR
EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (operation est utilis par
suboperation)
Nom de la contrainte: fki_suboperation_operation_rd_operation_id_id) WHERE NEW.rd_operation_id!=0 AND
NEW.rd_operation_id!=" AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL;
END;
CREATE TRIGGER fku_suboperation_operation_rd_operation_id_id BEFORE UPDATE ON suboperation FOR
EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par
suboperation)
Nom de la contrainte: fku_suboperation_operation_rd_operation_id_id) WHERE NEW.rd_operation_id!=0
AND NEW.rd_operation_id!=" AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS
NULL; END;
CREATE TRIGGER fkdc_operation_suboperation_id_rd_operation_id BEFORE DELETE ON operation FOR
EACH ROW BEGIN DELETE FROM suboperation WHERE suboperation.rd_operation_id = OLD.id; END;
CREATE TRIGGER fki_suboperation_category_r_category_id_id BEFORE INSERT ON suboperation FOR
EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (category est utilis par
suboperation)
Nom de la contrainte: fki_suboperation_category_r_category_id_id) WHERE NEW.r_category_id!=0 AND
NEW.r_category_id!=" AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;
CREATE TRIGGER fku_suboperation_category_r_category_id_id BEFORE UPDATE ON suboperation FOR
EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par
suboperation)
Nom de la contrainte: fku_suboperation_category_r_category_id_id) WHERE NEW.r_category_id!=0 AND
NEW.r_category_id!=" AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;
CREATE TRIGGER fkd_suboperation_category_r_category_id_id BEFORE DELETE ON category FOR EACH
ROW BEGIN UPDATE suboperation SET r_category_id=0 WHERE r_category_id=OLD.id; END;
CREATE TRIGGER fki_suboperation_refund_r_refund_id_id BEFORE INSERT ON suboperation FOR EACH
ROW BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (refund est utilis par suboperation)
Nom de la contrainte: fki_suboperation_refund_r_refund_id_id) WHERE NEW.r_refund_id!=0 AND

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NEW.r_refund_id!="" AND (SELECT id FROM refund WHERE id = NEW.r_refund_id) IS NULL; END;
CREATE TRIGGER fku_suboperation_refund_r_refund_id_id BEFORE UPDATE ON suboperation FOR EACH
ROW BEGIN  SELECT RAISE(ABORT, 'Impossible de modifier un objet (refund est utilis par suboperation)
Nom de la contrainte: fku_suboperation_refund_r_refund_id_id')  WHERE NEW.r_refund_id!=0 AND
NEW.r_refund_id!="" AND (SELECT id FROM refund WHERE id = NEW.r_refund_id) IS NULL; END;
CREATE TRIGGER fkd_suboperation_refund_r_refund_id_id BEFORE DELETE ON refund FOR EACH ROW
BEGIN  UPDATE suboperation SET r_refund_id=0 WHERE r_refund_id=OLD.id; END;
CREATE TRIGGER fki_unit_unit_rd_unit_id_id BEFORE INSERT ON unit FOR EACH ROW BEGIN  SELECT
RAISE(ABORT, 'Impossible d"ajouter un objet (unit est utilis par unit)
Nom de la contrainte: fki_unit_unit_rd_unit_id_id')  WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!="" AND
(SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fku_unit_unit_rd_unit_id_id BEFORE UPDATE ON unit FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par unit)
Nom de la contrainte: fku_unit_unit_rd_unit_id_id')  WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!=""
AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkdc_unit_unit_id_rd_unit_id BEFORE DELETE ON unit FOR EACH ROW BEGIN
DELETE FROM unit WHERE unit.rd_unit_id = OLD.id; END;
CREATE TRIGGER fki_unitvalue_unit_rd_unit_id_id BEFORE INSERT ON unitvalue FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (unit est utilis par unitvalue)
Nom de la contrainte: fki_unitvalue_unit_rd_unit_id_id')  WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!=""
AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fku_unitvalue_unit_rd_unit_id_id BEFORE UPDATE ON unitvalue FOR EACH ROW
BEGIN  SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par unitvalue)
Nom de la contrainte: fku_unitvalue_unit_rd_unit_id_id')  WHERE NEW.rd_unit_id!=0 AND
NEW.rd_unit_id!="" AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkdc_unit_unitvalue_id_rd_unit_id BEFORE DELETE ON unit FOR EACH ROW BEGIN
DELETE FROM unitvalue WHERE unitvalue.rd_unit_id = OLD.id; END;
CREATE TRIGGER fkd_vm_budget_tmp_category_rc_category_id_id BEFORE DELETE ON category FOR
EACH ROW BEGIN  SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par
vm_budget_tmp)
Nom de la contrainte: fkd_vm_budget_tmp_category_rc_category_id_id')  WHERE (SELECT rc_category_id
FROM vm_budget_tmp WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fkdc_category_vm_category_display_tmp_id_rd_category_id BEFORE DELETE ON
category FOR EACH ROW BEGIN  DELETE FROM vm_category_display_tmp WHERE
vm_category_display_tmp.rd_category_id = OLD.id; END;
CREATE VIEW v_unit_displayname AS SELECT *, t_name||' (||t_symbol||)' AS t_displayname FROM unit;
CREATE VIEW v_unit_tmp1 AS SELECT *,(SELECT count(*) FROM unitvalue s WHERE s.rd_unit_id=unit.id)
AS i_NBVALUES, (CASE WHEN unit.rd_unit_id=0 THEN "" ELSE (SELECT (CASE WHEN s.t_symbol!="
THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=unit.rd_unit_id) END) AS t_UNIT,(CASE
unit.t_type WHEN '1' THEN 'Monnaie principale' WHEN '2' THEN 'Monnaie secondaire' WHEN 'C' THEN
'Monnaie' WHEN 'S' THEN 'Action' WHEN 'T' THEN 'Indice' ELSE 'Objet' END) AS t_TYPENLS, (SELECT
MIN(s.d_date) FROM unitvalue s WHERE s.rd_unit_id=unit.id) AS d_MINDATE, (SELECT MAX(s.d_date)
FROM unitvalue s WHERE s.rd_unit_id=unit.id) AS d_MAXDATE from unit;
CREATE VIEW v_unit_tmp2 AS SELECT *,CASE WHEN v_unit_tmp1.t_type='1' THEN 1 ELSE
IFNULL((SELECT s.f_quantity FROM unitvalue s WHERE s.rd_unit_id=v_unit_tmp1.id AND
s.d_date=v_unit_tmp1.d_MAXDATE),1) END AS f_LASTVALUE from v_unit_tmp1;
CREATE VIEW v_unit AS SELECT *,v_unit_tmp2.f_LASTVALUE*IFNULL((SELECT s2.f_LASTVALUE
FROM v_unit_tmp2 s2 WHERE s2.id=v_unit_tmp2.rd_unit_id) , 1) AS f_CURRENTAMOUNT from

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v_unit_tmp2;
CREATE VIEW v_unitvalue_displayname AS SELECT *, (SELECT t_displayname FROM v_unit_displayname
WHERE unitvalue.rd_unit_id=v_unit_displayname.id)||' ||STRFTIME('%d/%m/%Y',d_date) AS t_displayname
FROM unitvalue;
CREATE VIEW v_unitvalue AS SELECT * FROM unitvalue;
CREATE VIEW v_suboperation AS SELECT * FROM suboperation;
CREATE VIEW v_operation_numbers AS SELECT DISTINCT i_number, rd_account_id FROM operation;
CREATE VIEW v_operation_next_numbers AS SELECT T1.i_number+1 AS i_number FROM
v_operation_numbers AS T1 LEFT OUTER JOIN v_operation_numbers T2 ON
T2.rd_account_id=T1.rd_account_id AND T2.i_number=T1.i_number+1 WHERE T1.i_number!=0 AND
(T2.i_number IS NULL) ORDER BY T1.i_number;
CREATE VIEW v_operation_tmp1 AS SELECT *,(SELECT t_name FROM payee s WHERE
s.id=operation.r_payee_id) AS t_PAYEE,(SELECT TOTAL(s.f_value) FROM suboperation s WHERE
s.rd_operation_id=operation.ID) AS f_QUANTITY,(SELECT count(*) FROM suboperation s WHERE
s.rd_operation_id=operation.ID) AS i_NBSUBCATEGORY FROM operation;
CREATE VIEW v_operation AS SELECT *,(SELECT s.id FROM suboperation s WHERE
s.rd_operation_id=v_operation_tmp1.id AND ABS(s.f_value)=(SELECT MAX(ABS(s2.f_value)) FROM
suboperation s2 WHERE s2.rd_operation_id=v_operation_tmp1.id)) AS i_MOSTIMPSUBOP,((SELECT
s.f_CURRENTAMOUNT FROM v_unit s WHERE
s.id=v_operation_tmp1.rc_unit_id)*v_operation_tmp1.f_QUANTITY) AS f_CURRENTAMOUNT, (CASE WHEN
v_operation_tmp1.i_group_id<>0 AND EXISTS (SELECT 1 FROM account a WHERE
v_operation_tmp1.rd_account_id=a.id AND a.t_type<>'L') AND EXISTS (SELECT 1 FROM v_operation_tmp1
op2, account a WHERE op2.i_group_id=v_operation_tmp1.i_group_id AND op2.rd_account_id=a.id AND
a.t_type<>'L' AND op2.rc_unit_id=v_operation_tmp1.rc_unit_id AND op2.f_QUANTITY=-
v_operation_tmp1.f_QUANTITY) THEN 'Y' ELSE 'N' END) AS t_TRANSFER FROM v_operation_tmp1;
CREATE VIEW v_operation_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||'
||IFNULL(t_PAYEE,'')||' ||v_operation.f_CURRENTAMOUNT||' ||(SELECT (CASE WHEN s.t_symbol!= ' THEN
s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=v_operation.rc_unit_id) AS t_displayname FROM
v_operation;
CREATE VIEW v_operation_delete AS SELECT *, (CASE WHEN t_status='Y' THEN 'Vous n"tes pas autoris
dtruire cette operation car en tat rapproch' END) t_delete_message FROM operation;
CREATE VIEW v_account AS SELECT *,(SELECT MAX(s.d_date) FROM interest s WHERE
s.rd_account_id=account.id) AS d_MAXDATE, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation
s WHERE s.rd_account_id=account.id AND s.t_template='N') AS f_CURRENTAMOUNT FROM account;
CREATE VIEW v_account_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM operation WHERE
rd_account_id=account.id AND d_date<>'0000-00-00' AND t_template='N' AND t_status='Y') THEN 'Vous n"tes
pas autoris dtruire ce compte car il contient des operations rapproches' END) t_delete_message FROM account;
CREATE VIEW v_bank_displayname AS SELECT *, t_name AS t_displayname FROM bank;
CREATE VIEW v_account_displayname AS SELECT *, (SELECT t_displayname FROM v_bank_displayname
WHERE account.rd_bank_id=v_bank_displayname.id)||'-||t_name AS t_displayname FROM account;
CREATE VIEW v_bank AS SELECT *,(SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_account s
WHERE s.rd_bank_id=bank.id) AS f_CURRENTAMOUNT FROM bank;
CREATE VIEW v_category_displayname AS SELECT *, t_fullname AS t_displayname FROM category;
CREATE VIEW v_category AS SELECT * FROM category;
CREATE VIEW v_recurrentoperation AS SELECT *,i_period_increment||' ||(CASE t_period_unit WHEN 'Y'
THEN 'anne(s)' WHEN 'M' THEN 'mois' WHEN 'W' THEN 'semaine(s)' ELSE 'jour(s)' END) AS t_PERIODNLS
FROM recurrentoperation;
CREATE VIEW v_recurrentoperation_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||'

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||SUBSTR((SELECT t_displayname FROM v_operation_displayname WHERE
v_operation_displayname.id=v_recurrentoperation.rd_operation_id), 11) AS t_displayname FROM
v_recurrentoperation;
CREATE VIEW v_unitvalue_display AS SELECT *,IFNULL((SELECT (CASE WHEN s.t_symbol!="" THEN
s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=(SELECT s2.rd_unit_id FROM unit s2 WHERE
s2.id=unitvalue.rd_unit_id)),") AS t_UNIT,STRFTIME('%Y-%m',unitvalue.d_date) AS
d_DATEMONTH,STRFTIME('%Y',unitvalue.d_date) AS d_DATEYEAR FROM unitvalue;
CREATE VIEW v_suboperation_display AS SELECT *,IFNULL((SELECT s.t_fullname FROM category s
WHERE s.id=v_suboperation.r_category_id,") AS t_CATEGORY, IFNULL((SELECT s.t_name FROM refund s
WHERE s.id=v_suboperation.r_refund_id,") AS t_REFUND, (CASE WHEN v_suboperation.f_value>=0 THEN
v_suboperation.f_value ELSE 0 END) AS f_VALUE_INCOME, (CASE WHEN v_suboperation.f_value<=0 THEN
v_suboperation.f_value ELSE 0 END) AS f_VALUE_EXPENSE FROM v_suboperation;
CREATE VIEW v_suboperation_displayname AS SELECT *, t_CATEGORY||' : '||f_value AS t_displayname
FROM v_suboperation_display;
CREATE VIEW v_operation_display_all AS SELECT *,(SELECT s.t_name FROM account s WHERE
s.id=v_operation.rd_account_id) AS t_ACCOUNT,(SELECT (CASE WHEN s.t_symbol!="" THEN s.t_symbol
ELSE s.t_name END) FROM unit s WHERE s.id=v_operation.rc_unit_id) AS t_UNIT,(SELECT s.t_CATEGORY
FROM v_suboperation_display s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_CATEGORY,(SELECT
s.t_REFUND FROM v_suboperation_display s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS
t_REFUND,(CASE WHEN v_operation.f_QUANTITY<0 THEN '-' WHEN v_operation.f_QUANTITY=0 THEN ''
ELSE '+' END) AS t_TYPEEXPENSE, (CASE WHEN v_operation.f_QUANTITY<=0 THEN 'Dpense' ELSE
'Revenu' END) AS t_TYPEEXPENSENLS, STRFTIME('%Y-W%W',v_operation.d_date) AS
d_DATEWEEK,STRFTIME('%Y-%m',v_operation.d_date) AS
d_DATEMONTH,STRFTIME('%Y',v_operation.d_date)||'-Q'|(CASE WHEN
STRFTIME('%m',v_operation.d_date)<='03' THEN '1' WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN
'2' WHEN STRFTIME('%m',v_operation.d_date)<='09' THEN '3' ELSE '4' END) AS d_DATEQUARTER,
STRFTIME('%Y',v_operation.d_date)||'-S'|(CASE WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN '1'
ELSE '2' END) AS d_DATESEMESTER, STRFTIME('%Y',v_operation.d_date) AS d_DATEYEAR, (SELECT
count(*) FROM v_recurrentoperation s WHERE s.rd_operation_id=v_operation.id) AS i_NBRECURRENT,
(CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_QUANTITY ELSE 0 END) AS
f_QUANTITY_INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_QUANTITY
ELSE 0 END) AS f_QUANTITY_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE
o2.r_operation_id=v_operation.id ) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN
v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_INCOME, (CASE WHEN
v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS
f_CURRENTAMOUNT_EXPENSE FROM v_operation;
CREATE VIEW v_operation_template_display AS SELECT * FROM v_operation_display_all WHERE
t_template='Y';
CREATE VIEW v_operation_display AS SELECT * FROM v_operation_display_all WHERE d_date!='0000-00-
00' AND t_template='N';
CREATE VIEW v_unit_display AS SELECT *,(SELECT TOTAL(o.f_QUANTITY) FROM v_operation_display o
WHERE o.rc_unit_id=v_unit.id) AS f_QUANTITYOWNED FROM v_unit;
CREATE VIEW v_account_display AS SELECT (CASE t_type WHEN 'C' THEN 'Courant' WHEN 'D' THEN
'Carte de credit' WHEN 'A' THEN 'Actif' WHEN 'I' THEN 'Investissement' WHEN 'W' THEN 'Portefeuille' WHEN
'L' THEN 'Prt' WHEN 'O' THEN 'Autre' END) AS t_TYPENLS,bank.t_name AS t_BANK,bank.t_bank_number
AS t_BANK_NUMBER,bank.t_icon AS t_ICON,v_account.*, (v_account.f_CURRENTAMOUNT/(SELECT
u.f_CURRENTAMOUNT FROM v_unit u, operation s WHERE u.id=s.rc_unit_id AND
s.rd_account_id=v_account.id AND s.d_date='0000-00-00')) AS f_QUANTITY, (SELECT (CASE WHEN

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u.t_symbol!='' THEN u.t_symbol ELSE u.t_name END) FROM unit u, operation s WHERE u.id=s.rc_unit_id AND
s.rd_account_id=v_account.id AND s.d_date='0000-00-00') AS t_UNIT, (SELECT
TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND
s.t_status!='N' AND s.t_template='N') AS f_CHECKED, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM
v_operation s WHERE s.rd_account_id=v_account.id AND s.t_status='N' AND s.t_template='N') AS
f_COMING_SOON, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE
s.rd_account_id=v_account.id AND s.d_date<=date('now') AND s.t_template='N') AS f_TODAYAMOUNT,
(SELECT count(*) FROM v_operation_display s WHERE s.rd_account_id=v_account.id) AS i_NBOPERATIONS,
IFNULL((SELECT s.f_rate FROM interest s WHERE s.rd_account_id=v_account.id AND
s.d_date=v_account.d_MAXDATE),0) AS f_RATE FROM v_account, bank WHERE
bank.id=v_account.rd_bank_id;
CREATE VIEW v_operation_consolidated AS SELECT (SELECT s.t_TYPENLS FROM v_account_display s
WHERE s.id=op.rd_account_id) AS t_ACCOUNTTYPE,(SELECT u.t_TYPENLS FROM v_unit u WHERE
u.id=op.rc_unit_id) AS t_UNITYTYPE,sop.id AS i_SUBOPID, sop.r_refund_id AS r_refund_id, (CASE WHEN
sop.t_comment='' THEN op.t_comment ELSE sop.t_comment END) AS t_REALCOMMENT, sop.t_CATEGORY
AS t_REALCATEGORY, sop.t_REFUND AS t_REALREFUND, sop.r_category_id AS i_IDCATEGORY, (CASE
WHEN sop.f_value<0 THEN '-' WHEN sop.f_value=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE, (CASE
WHEN sop.f_value<0 THEN 'Dpense' WHEN sop.f_value=0 THEN '' ELSE 'Revenu' END) AS
t_TYPEEXPENSENLS, sop.f_value AS f_REALQUANTITY, sop.f_VALUE_INCOME AS
f_REALQUANTITY_INCOME, sop.f_VALUE_EXPENSE AS f_REALQUANTITY_EXPENSE, ((SELECT
u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_value) AS
f_REALCURRENTAMOUNT, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE
u.id=op.rc_unit_id)*sop.f_VALUE_INCOME) AS f_REALCURRENTAMOUNT_INCOME, ((SELECT
u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_VALUE_EXPENSE) AS
f_REALCURRENTAMOUNT_EXPENSE, op.* FROM v_operation_display_all AS op, v_suboperation_display
AS sop WHERE op.t_template='N' AND sop.rd_operation_id=op.ID;
CREATE VIEW v_operation_prop AS SELECT p.id AS i_PROPPID, p.t_name AS i_PROPPNAME, p.t_value AS
i_PROPVALUE, op.* FROM v_operation_consolidated AS op LEFT OUTER JOIN parameters AS p ON
p.t_uuid_parent=op.id||'-operation';
CREATE VIEW v_refund_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM
v_operation_consolidated WHERE r_refund_id=refund.id AND t_status='Y') THEN 'Vous n"tes pas autoris dtruire
ce suiveur car utilis par des oprations rapproches' END) t_delete_message FROM refund;
CREATE VIEW v_refund AS SELECT *, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM
v_operation_consolidated o WHERE o.r_refund_id=refund.id) AS f_CURRENTAMOUNT FROM refund;
CREATE VIEW v_refund_display AS SELECT *,(SELECT MIN(o.d_date) FROM v_operation_consolidated o
WHERE o.r_refund_id=v_refund.id) AS d_FIRSTDATE, (SELECT MAX(o.d_date) FROM
v_operation_consolidated o WHERE o.r_refund_id=v_refund.id) AS d_LASTDATE FROM v_refund;
CREATE VIEW v_refund_displayname AS SELECT *, t_name AS t_displayname FROM refund;
CREATE VIEW v_payee_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM operation WHERE
r_payee_id=payee.id AND t_status='Y') THEN 'Vous n"tes pas autoris dtruire ce tiers car utilis par des oprations
rapproches' END) t_delete_message FROM payee;
CREATE VIEW v_payee AS SELECT *, (SELECT TOTAL(o.f_CURRENTAMOUNT) FROM v_operation o
WHERE o.r_payee_id=payee.id AND o.t_template='N') AS f_CURRENTAMOUNT FROM payee;
CREATE VIEW v_payee_display AS SELECT * FROM v_payee;
CREATE VIEW v_payee_displayname AS SELECT *, t_name AS t_displayname FROM payee;
CREATE VIEW v_category_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM
v_operation_consolidated WHERE (t_REALCATEGORY=category.t_fullname OR t_REALCATEGORY like
category.t_fullname||'%') AND t_status='Y') THEN 'Vous n"tes pas autoris dtruire cette catgorie car utilise par des

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operations rapproches' END) t_delete_message FROM category;
CREATE VIEW v_category_display_tmp AS SELECT *,(SELECT count(distinct(so.rd_operation_id)) FROM
operation o, suboperation so WHERE so.rd_operation_id=o.id AND so.r_category_id=v_category.ID AND
o.t_template='N') AS i_NBOPERATIONS, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM
v_operation_consolidated o WHERE o.i_IDCATEGORY=v_category.ID) AS f_REALCURRENTAMOUNT
FROM v_category;
CREATE VIEW v_category_display AS SELECT *,f_REALCURRENTAMOUNT+(SELECT
TOTAL(c.f_REALCURRENTAMOUNT) FROM vm_category_display_tmp c WHERE c.t_fullname LIKE
vm_category_display_tmp.t_fullname||' > %') AS f_SUMCURRENTAMOUNT, i_NBOPERATIONS+(SELECT
CAST(TOTAL(c.i_NBOPERATIONS) AS INTEGER) FROM vm_category_display_tmp c WHERE c.t_fullname
like vm_category_display_tmp.t_fullname||' > %') AS i_SUMNBOPERATIONS, (CASE WHEN t_bookmarked='Y'
THEN 'Y' WHEN EXISTS(SELECT 1 FROM category c WHERE c.t_bookmarked='Y' AND c.t_fullname like
vm_category_display_tmp.t_fullname||' > %') THEN 'C' ELSE 'N' END) AS t_HASBOOKMARKEDCHILD,
(CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN '-' WHEN
vm_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN '' ELSE '+' END) AS
t_TYPEEXPENSE,(CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN 'Dpense'
WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN '' ELSE 'Revenu' END) AS
t_TYPEEXPENSENLS FROM vm_category_display_tmp;
CREATE VIEW v_recurrentoperation_display AS SELECT rop.*, op.t_ACCOUNT, op.i_number, op.t_mode,
op.i_group_id, op.t_TRANSFER, op.t_PAYEE, op.t_comment, op.t_CATEGORY, op.t_status,
op.f_CURRENTAMOUNT FROM v_recurrentoperation rop, v_operation_display_all AS op WHERE
rop.rd_operation_id=op.ID;
CREATE VIEW v_rule AS SELECT *,(SELECT COUNT(1) FROM rule r WHERE
r.f_sortorder<=rule.f_sortorder) AS i_ORDER FROM rule;
CREATE VIEW v_rule_displayname AS SELECT *, t_definition AS t_displayname FROM rule;
CREATE VIEW v_interest AS SELECT *,(SELECT s.t_name FROM account s WHERE
s.id=interest.rd_account_id) AS t_ACCOUNT FROM interest;
CREATE VIEW v_interest_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||' ||f_rate||%' AS
t_displayname FROM interest;
CREATE VIEW v_budgetrule AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE
s.id=budgetrule.rc_category_id,)) AS t_CATEGORYCONDITION, IFNULL((SELECT s.t_fullname FROM
category s WHERE s.id=budgetrule.rc_category_id_target,)) AS t_CATEGORY, (CASE WHEN
budgetrule.i_condition=-1 THEN 'Ngatif' WHEN budgetrule.i_condition=1 THEN 'Positif' WHEN
budgetrule.i_condition=0 THEN 'Tous' END) AS t_WHENNLS, f_quantity||(CASE WHEN
budgetrule.t_absolute='N' THEN '%' ELSE (SELECT t_symbol FROM unit WHERE t_type='1') END) AS
t_WHATNLS,(CASE WHEN budgetrule.t_rule='N' THEN 'Suivant' WHEN budgetrule.t_rule='C' THEN 'Courant'
WHEN budgetrule.t_rule='Y' THEN 'Anne' END) AS t_RULENLS FROM budgetrule;
CREATE VIEW v_budgetrule_display AS SELECT * FROM v_budgetrule;
CREATE VIEW v_budgetrule_displayname AS SELECT *, t_WHENNLS||' ||t_WHATNLS||' ||t_RULENLS||'
||t_CATEGORY AS t_displayname FROM v_budgetrule;
CREATE VIEW v_budget_tmp AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE
s.id=budget.rc_category_id,)) AS t_CATEGORY, (i_year||(CASE WHEN i_month=0 THEN '' WHEN i_month<10
THEN '-'||i_month ELSE '+'||i_month END)) AS t_PERIOD, (SELECT TOTAL(o.f_REALCURRENTAMOUNT)
FROM v_operation_consolidated o WHERE STRFTIME('%Y', o.d_date)=i_year AND (i_month=0 OR
STRFTIME('%m', o.d_date)=i_month) AND o.i_IDCATEGORY IN (SELECT b2.id_category FROM
budgetcategory b2 WHERE b2.id=budget.id)) AS f_CURRENTAMOUNT, (SELECT
GROUP_CONCAT(v_budgetrule_displayname.t_displayname,') FROM v_budgetrule_displayname WHERE
(v_budgetrule_displayname.t_year_condition='N' OR budget.i_year=v_budgetrule_displayname.i_year) AND

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(v_budgetrule_displayname.t_month_condition='N' OR budget.i_month=v_budgetrule_displayname.i_month) AND
(v_budgetrule_displayname.t_category_condition='N' OR
budget.rc_category_id=v_budgetrule_displayname.rc_category_id) ORDER BY
v_budgetrule_displayname.t_absolute DESC, v_budgetrule_displayname.id) AS t_RULES FROM budget;
CREATE VIEW v_budget AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS
f_DELTABEFORETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA
FROM v_budget_tmp;
CREATE VIEW v_budget_display AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS
f_DELTABEFORETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA
FROM vm_budget_tmp;
CREATE VIEW v_budget_displayname AS SELECT *, t_CATEGORY||' ||t_PERIOD||' ||f_budgeted_modified AS
t_displayname FROM v_budget;
CREATE TRIGGER fkdc_bank_parameters_uuid BEFORE DELETE ON bank FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'bank'; END;
CREATE TRIGGER fkdc_account_parameters_uuid BEFORE DELETE ON account FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'account'; END;
CREATE TRIGGER fkdc_unit_parameters_uuid BEFORE DELETE ON unit FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'unit'; END;
CREATE TRIGGER fkdc_unitvalue_parameters_uuid BEFORE DELETE ON unitvalue FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'unitvalue'; END;
CREATE TRIGGER fkdc_category_parameters_uuid BEFORE DELETE ON category FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'category'; END;
CREATE TRIGGER fkdc_operation_parameters_uuid BEFORE DELETE ON operation FOR EACH ROW
BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'operation'; END;
CREATE TRIGGER fkdc_interest_parameters_uuid BEFORE DELETE ON interest FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'interest'; END;
CREATE TRIGGER fkdc_suboperation_parameters_uuid BEFORE DELETE ON suboperation FOR EACH ROW
BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'suboperation'; END;
CREATE TRIGGER fkdc_refund_parameters_uuid BEFORE DELETE ON refund FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'refund'; END;
CREATE TRIGGER fkdc_payee_parameters_uuid BEFORE DELETE ON payee FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'payee'; END;
CREATE TRIGGER fkdc_recurrentoperation_parameters_uuid BEFORE DELETE ON recurrentoperation FOR
EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'
||'recurrentoperation'; END;
CREATE TRIGGER fkdc_rule_parameters_uuid BEFORE DELETE ON rule FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'rule'; END;
CREATE TRIGGER fkdc_budget_parameters_uuid BEFORE DELETE ON budget FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budget'; END;
CREATE TRIGGER fkdc_budgetrule_parameters_uuid BEFORE DELETE ON budgetrule FOR EACH ROW
BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budgetrule'; END;
CREATE TRIGGER cpt_category_fullname1 AFTER INSERT ON category BEGIN UPDATE category SET
t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id="" OR rd_category_id=0 THEN
new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id)||' > ||new.t_name
END WHERE id=new.id;END;
CREATE TRIGGER cpt_category_fullname2 AFTER UPDATE OF t_name, rd_category_id ON category BEGIN
UPDATE category SET t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id="" OR
rd_category_id=0 THEN new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE

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c.id=new.rd_category_id)||' > ||new.t_name END WHERE id=new.id;UPDATE category SET t_name=t_name
WHERE rd_category_id=new.id;END;
CREATE TRIGGER fkdc_category_delete BEFORE DELETE ON category FOR EACH ROW BEGIN
UPDATE suboperation SET r_category_id=OLD.rd_category_id WHERE r_category_id=OLD.id; END;
explain
    SELECT TOTAL(f_CURRENTAMOUNT), d_DATEMONTH
    from v_operation_display
    WHERE d_DATEMONTH IN ('2012-05', '2012-04')
    group by d_DATEMONTH, t_TYPEEXPENSE;
}
} {/. * Goto .*/}

# The next test requires FTS4
ifcapable !fts3 {
    finish_test
    return
}

# Taken from the gnome-shell project
#
db close
forcedelete test.db
sqlite3 db test.db
do_test fuzz-oss1-gnomeshell {
    db eval {
CREATE TABLE Resource (ID INTEGER NOT NULL PRIMARY KEY, Uri TEXT NOT
NULL, UNIQUE (Uri));
CREATE VIRTUAL TABLE fts USING fts4;
CREATE TABLE "mfo:Action" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mfo:Enclosure" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:remoteLink" INTEGER, "mfo:remoteLink:graph" INTEGER,
"mfo:groupDefault" INTEGER, "mfo:groupDefault:graph" INTEGER,
"mfo:localLink" INTEGER, "mfo:localLink:graph" INTEGER, "mfo:optional"
INTEGER, "mfo:optional:graph" INTEGER);
CREATE TABLE "mfo:FeedChannel" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:updatedAt" INTEGER, "mfo:updatedAt:graph" INTEGER,
"mfo:updatedAt:localDate" INTEGER, "mfo:updatedAt:localTime"
INTEGER, "mfo:unreadCount" INTEGER, "mfo:unreadCount:graph" INTEGER,
"mfo:totalCount" INTEGER, "mfo:totalCount:graph" INTEGER, "mfo:action"
INTEGER, "mfo:action:graph" INTEGER, "mfo:type" INTEGER,
"mfo:type:graph" INTEGER);
CREATE TABLE "mfo:FeedElement" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:image" TEXT COLLATE NOCASE, "mfo:image:graph" INTEGER,
"mfo:feedSettings" INTEGER, "mfo:feedSettings:graph" INTEGER);
CREATE TABLE "mfo:FeedMessage" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:downloadedTime" INTEGER, "mfo:downloadedTime:graph" INTEGER,
"mfo:downloadedTime:localDate" INTEGER, "mfo:downloadedTime:localTime"
INTEGER);

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CREATE TABLE "mfo:FeedMessage_mfo:enclosureList" (ID INTEGER NOT NULL,
"mfo:enclosureList" INTEGER NOT NULL, "mfo:enclosureList:graph"
INTEGER);
CREATE TABLE "mfo:FeedSettings" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:updateInterval" INTEGER, "mfo:updateInterval:graph" INTEGER,
"mfo:expiryInterval" INTEGER, "mfo:expiryInterval:graph" INTEGER,
"mfo:downloadPath" TEXT COLLATE NOCASE, "mfo:downloadPath:graph"
INTEGER, "mfo:downloadFlag" INTEGER, "mfo:downloadFlag:graph" INTEGER,
"mfo:maxSize" INTEGER, "mfo:maxSize:graph" INTEGER);
CREATE TABLE "mfo:FeedType" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:name" TEXT COLLATE NOCASE, "mfo:name:graph" INTEGER);
CREATE TABLE "mlo:GeoBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoBoundingBox_mlo:bbNorthWest" (ID INTEGER NOT
NULL, "mlo:bbNorthWest" INTEGER NOT NULL, "mlo:bbNorthWest:graph"
INTEGER);
CREATE TABLE "mlo:GeoBoundingBox_mlo:bbSouthEast" (ID INTEGER NOT
NULL, "mlo:bbSouthEast" INTEGER NOT NULL, "mlo:bbSouthEast:graph"
INTEGER);
CREATE TABLE "mlo:GeoLocation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoLocation_mlo:asBoundingBox" (ID INTEGER NOT NULL,
"mlo:asBoundingBox" INTEGER NOT NULL, "mlo:asBoundingBox:graph"
INTEGER);
CREATE TABLE "mlo:GeoLocation_mlo:asGeoPoint" (ID INTEGER NOT NULL,
"mlo:asGeoPoint" INTEGER NOT NULL, "mlo:asGeoPoint:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation_mlo:asPostalAddress" (ID INTEGER NOT
NULL, "mlo:asPostalAddress" INTEGER NOT NULL,
"mlo:asPostalAddress:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoPoint_mlo:address" (ID INTEGER NOT NULL,
"mlo:address" TEXT NOT NULL, "mlo:address:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:altitude" (ID INTEGER NOT NULL,
"mlo:altitude" REAL NOT NULL, "mlo:altitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:city" (ID INTEGER NOT NULL, "mlo:city"
TEXT NOT NULL, "mlo:city:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:country" (ID INTEGER NOT NULL,
"mlo:country" TEXT NOT NULL, "mlo:country:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:latitude" (ID INTEGER NOT NULL,
"mlo:latitude" REAL NOT NULL, "mlo:latitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:longitude" (ID INTEGER NOT NULL,
"mlo:longitude" REAL NOT NULL, "mlo:longitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:state" (ID INTEGER NOT NULL,
"mlo:state" TEXT NOT NULL, "mlo:state:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:timestamp" (ID INTEGER NOT NULL,
"mlo:timestamp" INTEGER NOT NULL, "mlo:timestamp:graph" INTEGER,
"mlo:timestamp:localDate" INTEGER NOT NULL, "mlo:timestamp:localTime"
INTEGER NOT NULL);
CREATE TABLE "mlo:GeoSphere" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoSphere_mlo:radius" (ID INTEGER NOT NULL,

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"mlo:radius" REAL NOT NULL, "mlo:radius:graph" INTEGER);
CREATE TABLE "mlo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LandmarkCategory" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LandmarkCategory_mlo:isRemovable" (ID INTEGER NOT
NULL, "mlo:isRemovable" INTEGER NOT NULL, "mlo:isRemovable:graph"
INTEGER);
CREATE TABLE "mlo:Landmark_mlo:belongsToCategory" (ID INTEGER NOT
NULL, "mlo:belongsToCategory" INTEGER NOT NULL,
"mlo:belongsToCategory:graph" INTEGER);
CREATE TABLE "mlo:Landmark_mlo:poiLocation" (ID INTEGER NOT NULL,
"mlo:poiLocation" INTEGER NOT NULL, "mlo:poiLocation:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxEastLimit" (ID INTEGER
NOT NULL, "mlo:boxEastLimit" INTEGER NOT NULL,
"mlo:boxEastLimit:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxNorthLimit" (ID INTEGER
NOT NULL, "mlo:boxNorthLimit" INTEGER NOT NULL,
"mlo:boxNorthLimit:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxSouthWestCorner" (ID
INTEGER NOT NULL, "mlo:boxSouthWestCorner" INTEGER NOT NULL,
"mlo:boxSouthWestCorner:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxVerticalLimit" (ID
INTEGER NOT NULL, "mlo:boxVerticalLimit" INTEGER NOT NULL,
"mlo:boxVerticalLimit:graph" INTEGER);
CREATE TABLE "mlo:PointOfInterest" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Route" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Route_mlo:endTime" (ID INTEGER NOT NULL,
"mlo:endTime" INTEGER NOT NULL, "mlo:endTime:graph" INTEGER,
"mlo:endTime:localDate" INTEGER NOT NULL, "mlo:endTime:localTime"
INTEGER NOT NULL);
CREATE TABLE "mlo:Route_mlo:routeDetails" (ID INTEGER NOT NULL,
"mlo:routeDetails" TEXT NOT NULL, "mlo:routeDetails:graph" INTEGER);
CREATE TABLE "mlo:Route_mlo:startTime" (ID INTEGER NOT NULL,
"mlo:startTime" INTEGER NOT NULL, "mlo:startTime:graph" INTEGER,
"mlo:startTime:localDate" INTEGER NOT NULL, "mlo:startTime:localTime"
INTEGER NOT NULL);
CREATE TABLE "mto:DownloadTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:State" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:SyncTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:Transfer" (ID INTEGER NOT NULL PRIMARY KEY,
"mto:transferState" INTEGER, "mto:transferState:graph" INTEGER,
"mto:method" INTEGER, "mto:method:graph" INTEGER, "mto:created"
INTEGER, "mto:created:graph" INTEGER, "mto:created:localDate" INTEGER,
"mto:created:localTime" INTEGER, "mto:account" TEXT COLLATE NOCASE,
"mto:account:graph" INTEGER, "mto:starter" INTEGER,
"mto:starter:graph" INTEGER, "mto:agent" INTEGER, "mto:agent:graph"
INTEGER);
CREATE TABLE "mto:TransferElement" (ID INTEGER NOT NULL PRIMARY KEY,

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"mto:source" INTEGER, "mto:source:graph" INTEGER, "mto:destination"
INTEGER, "mto:destination:graph" INTEGER, "mto:startedTime" INTEGER,
"mto:startedTime:graph" INTEGER, "mto:startedTime:localDate" INTEGER,
"mto:startedTime:localTime" INTEGER, "mto:completedTime" INTEGER,
"mto:completedTime:graph" INTEGER, "mto:completedTime:localDate"
INTEGER, "mto:completedTime:localTime" INTEGER, "mto:state" INTEGER,
"mto:state:graph" INTEGER);
CREATE TABLE "mto:TransferMethod" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:Transfer_mto:transferList" (ID INTEGER NOT NULL,
"mto:transferList" INTEGER NOT NULL, "mto:transferList:graph"
INTEGER);
CREATE TABLE "mto:Transfer_mto:transferPrivacyLevel" (ID INTEGER NOT
NULL, "mto:transferPrivacyLevel" TEXT NOT NULL,
"mto:transferPrivacyLevel:graph" INTEGER);
CREATE TABLE "mto:UploadTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:UploadTransfer_mto:transferCategory" (ID INTEGER NOT
NULL, "mto:transferCategory" TEXT NOT NULL,
"mto:transferCategory:graph" INTEGER);
CREATE TABLE "mtp:ScanType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nao:Property" (ID INTEGER NOT NULL PRIMARY KEY,
"nao:propertyName" TEXT COLLATE NOCASE, "nao:propertyName:graph"
INTEGER, "nao:propertyValue" TEXT COLLATE NOCASE,
"nao:propertyValue:graph" INTEGER);
CREATE TABLE "nao:Tag" (ID INTEGER NOT NULL PRIMARY KEY,
"nao:prefLabel" TEXT COLLATE NOCASE, "nao:prefLabel:graph" INTEGER,
"nao:description" TEXT COLLATE NOCASE, "nao:description:graph"
INTEGER);
CREATE TABLE "nao:Tag_tracker:isDefaultTag" (ID INTEGER NOT NULL,
"tracker:isDefaultTag" INTEGER NOT NULL, "tracker:isDefaultTag:graph"
INTEGER);
CREATE TABLE "nao:Tag_tracker:tagRelatedTo" (ID INTEGER NOT NULL,
"tracker:tagRelatedTo" INTEGER NOT NULL, "tracker:tagRelatedTo:graph"
INTEGER);
CREATE TABLE "ncal:AccessClassification" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Alarm" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:repeat" INTEGER, "ncal:repeat:graph" INTEGER);
CREATE TABLE "ncal:AlarmAction" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Alarm_ncal:action" (ID INTEGER NOT NULL,
"ncal:action" INTEGER NOT NULL, "ncal:action:graph" INTEGER);
CREATE TABLE "ncal:Attachment" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:attachmentUri" INTEGER, "ncal:attachmentUri:graph" INTEGER,
"ncal:fmttype" TEXT COLLATE NOCASE, "ncal:fmttype:graph" INTEGER,
"ncal:encoding" INTEGER, "ncal:encoding:graph" INTEGER,
"ncal:attachmentContent" TEXT COLLATE NOCASE,
"ncal:attachmentContent:graph" INTEGER);
CREATE TABLE "ncal:AttachmentEncoding" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Attendee" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:delegatedTo" INTEGER, "ncal:delegatedTo:graph" INTEGER,

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"ncal:delegatedFrom" INTEGER, "ncal:delegatedFrom:graph" INTEGER,
"ncal:cutype" INTEGER, "ncal:cutype:graph" INTEGER, "ncal:member"
INTEGER, "ncal:member:graph" INTEGER, "ncal:role" INTEGER,
"ncal:role:graph" INTEGER, "ncal:rsvp" INTEGER, "ncal:rsvp:graph"
INTEGER, "ncal:partstat" INTEGER, "ncal:partstat:graph" INTEGER);
CREATE TABLE "ncal:AttendeeOrOrganizer" (ID INTEGER NOT NULL PRIMARY
KEY, "ncal:dir" INTEGER, "ncal:dir:graph" INTEGER,
"ncal:involvedContact" INTEGER, "ncal:involvedContact:graph" INTEGER,
"ncal:sentBy" INTEGER, "ncal:sentBy:graph" INTEGER);
CREATE TABLE "ncal:AttendeeRole" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:BydayRulePart" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:BydayRulePart_ncal:bydayModifier" (ID INTEGER NOT
NULL, "ncal:bydayModifier" INTEGER NOT NULL,
"ncal:bydayModifier:graph" INTEGER);
CREATE TABLE "ncal:BydayRulePart_ncal:bydayWeekday" (ID INTEGER NOT
NULL, "ncal:bydayWeekday" INTEGER NOT NULL, "ncal:bydayWeekday:graph"
INTEGER);
CREATE TABLE "ncal:Calendar" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:method" TEXT COLLATE NOCASE, "ncal:method:graph" INTEGER,
"ncal:calscale" INTEGER, "ncal:calscale:graph" INTEGER, "ncal:prodid"
TEXT COLLATE NOCASE, "ncal:prodid:graph" INTEGER, "ncal:version" TEXT
COLLATE NOCASE, "ncal:version:graph" INTEGER);
CREATE TABLE "ncal:CalendarDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:CalendarScale" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:CalendarUserType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Calendar_ncal:component" (ID INTEGER NOT NULL,
"ncal:component" INTEGER NOT NULL, "ncal:component:graph" INTEGER);
CREATE TABLE "ncal:Event" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:eventStatus" INTEGER, "ncal:eventStatus:graph" INTEGER,
"ncal:transp" INTEGER, "ncal:transp:graph" INTEGER);
CREATE TABLE "ncal:EventStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Freebusy" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:FreebusyPeriod" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:fbtype" INTEGER, "ncal:fbtype:graph" INTEGER);
CREATE TABLE "ncal:FreebusyType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Freebusy_ncal:freebusy" (ID INTEGER NOT NULL,
"ncal:freebusy" INTEGER NOT NULL, "ncal:freebusy:graph" INTEGER);
CREATE TABLE "ncal:Journal" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:journalStatus" INTEGER, "ncal:journalStatus:graph" INTEGER);
CREATE TABLE "ncal:JournalStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:NcalDateTime" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:ncalTimezone" INTEGER, "ncal:ncalTimezone:graph" INTEGER,
"ncal:date" INTEGER, "ncal:date:graph" INTEGER, "ncal:date:localDate"
INTEGER, "ncal:date:localTime" INTEGER, "ncal:dateTime" INTEGER,
"ncal:dateTime:graph" INTEGER, "ncal:dateTime:localDate" INTEGER,
"ncal:dateTime:localTime" INTEGER);
CREATE TABLE "ncal:NcalPeriod" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:periodBegin" INTEGER, "ncal:periodBegin:graph" INTEGER,

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"ncal:periodBegin:localDate" INTEGER, "ncal:periodBegin:localTime"
INTEGER, "ncal:periodDuration" INTEGER, "ncal:periodDuration:graph"
INTEGER, "ncal:periodEnd" INTEGER, "ncal:periodEnd:graph" INTEGER,
"ncal:periodEnd:localDate" INTEGER, "ncal:periodEnd:localTime"
INTEGER);
CREATE TABLE "ncal:NcalTimeEntity" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Organizer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:ParticipationStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceFrequency" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceIdentifier" (ID INTEGER NOT NULL PRIMARY
KEY, "ncal:range" INTEGER, "ncal:range:graph" INTEGER,
"ncal:recurrenceIdDateTime" INTEGER, "ncal:recurrenceIdDateTime:graph"
INTEGER);
CREATE TABLE "ncal:RecurrenceIdentifierRange" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceRule" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:until" INTEGER, "ncal:until:graph" INTEGER,
"ncal:until:localDate" INTEGER, "ncal:until:localTime" INTEGER,
"ncal:wkst" INTEGER, "ncal:wkst:graph" INTEGER, "ncal:interval"
INTEGER, "ncal:interval:graph" INTEGER, "ncal:count" INTEGER,
"ncal:count:graph" INTEGER, "ncal:freq" INTEGER, "ncal:freq:graph"
INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byday" (ID INTEGER NOT NULL,
"ncal:byday" INTEGER NOT NULL, "ncal:byday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byhour" (ID INTEGER NOT NULL,
"ncal:byhour" INTEGER NOT NULL, "ncal:byhour:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byminute" (ID INTEGER NOT NULL,
"ncal:byminute" INTEGER NOT NULL, "ncal:byminute:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonth" (ID INTEGER NOT NULL,
"ncal:bymonth" INTEGER NOT NULL, "ncal:bymonth:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonthday" (ID INTEGER NOT
NULL, "ncal:bymonthday" INTEGER NOT NULL, "ncal:bymonthday:graph"
INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bysecond" (ID INTEGER NOT NULL,
"ncal:bysecond" INTEGER NOT NULL, "ncal:bysecond:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bysetpos" (ID INTEGER NOT NULL,
"ncal:bysetpos" INTEGER NOT NULL, "ncal:bysetpos:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byweekno" (ID INTEGER NOT NULL,
"ncal:byweekno" INTEGER NOT NULL, "ncal:byweekno:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byyearday" (ID INTEGER NOT
NULL, "ncal:byyearday" INTEGER NOT NULL, "ncal:byyearday:graph"
INTEGER);
CREATE TABLE "ncal:RequestStatus" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:statusDescription" TEXT COLLATE NOCASE,
"ncal:statusDescription:graph" INTEGER, "ncal:returnStatus" TEXT
COLLATE NOCASE, "ncal:returnStatus:graph" INTEGER,
"ncal:requestStatusData" TEXT COLLATE NOCASE,
"ncal:requestStatusData:graph" INTEGER);
CREATE TABLE "ncal:TimeTransparency" (ID INTEGER NOT NULL PRIMARY KEY);

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CREATE TABLE "ncal:Timezone" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:tzurl" INTEGER, "ncal:tzurl:graph" INTEGER, "ncal:standard"
INTEGER, "ncal:standard:graph" INTEGER, "ncal:daylight" INTEGER,
"ncal:daylight:graph" INTEGER, "ncal:tzid" TEXT COLLATE NOCASE,
"ncal:tzid:graph" INTEGER);
CREATE TABLE "ncal:TimezoneObservance" (ID INTEGER NOT NULL PRIMARY
KEY, "ncal:tzoffsetfrom" TEXT COLLATE NOCASE,
"ncal:tzoffsetfrom:graph" INTEGER, "ncal:tzoffsetto" TEXT COLLATE
NOCASE, "ncal:tzoffsetto:graph" INTEGER, "ncal:tzname" TEXT COLLATE
NOCASE, "ncal:tzname:graph" INTEGER);
CREATE TABLE "ncal:Todo" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:percentComplete" INTEGER, "ncal:percentComplete:graph" INTEGER,
"ncal:completed" INTEGER, "ncal:completed:graph" INTEGER,
"ncal:completed:localDate" INTEGER, "ncal:completed:localTime"
INTEGER, "ncal:todoStatus" INTEGER, "ncal:todoStatus:graph" INTEGER,
"ncal:due" INTEGER, "ncal:due:graph" INTEGER);
CREATE TABLE "ncal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Trigger" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:related" INTEGER, "ncal:related:graph" INTEGER,
"ncal:triggerDateTime" INTEGER, "ncal:triggerDateTime:graph" INTEGER,
"ncal:triggerDateTime:localDate" INTEGER,
"ncal:triggerDateTime:localTime" INTEGER, "ncal:triggerDuration"
INTEGER, "ncal:triggerDuration:graph" INTEGER);
CREATE TABLE "ncal:TriggerRelation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:UnionParentClass" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:lastModified" INTEGER, "ncal:lastModified:graph" INTEGER,
"ncal:lastModified:localDate" INTEGER, "ncal:lastModified:localTime"
INTEGER, "ncal:trigger" INTEGER, "ncal:trigger:graph" INTEGER,
"ncal:created" INTEGER, "ncal:created:graph" INTEGER,
"ncal:created:localDate" INTEGER, "ncal:created:localTime" INTEGER,
"ncal:url" INTEGER, "ncal:url:graph" INTEGER, "ncal:comment" TEXT
COLLATE NOCASE, "ncal:comment:graph" INTEGER, "ncal:summaryAltRep"
INTEGER, "ncal:summaryAltRep:graph" INTEGER, "ncal:priority" INTEGER,
"ncal:priority:graph" INTEGER, "ncal:location" TEXT COLLATE NOCASE,
"ncal:location:graph" INTEGER, "ncal:uid" TEXT COLLATE NOCASE,
"ncal:uid:graph" INTEGER, "ncal:requestStatus" INTEGER,
"ncal:requestStatus:graph" INTEGER, "ncal:recurrenceId" INTEGER,
"ncal:recurrenceId:graph" INTEGER, "ncal:dtstamp" INTEGER,
"ncal:dtstamp:graph" INTEGER, "ncal:dtstamp:localDate" INTEGER,
"ncal:dtstamp:localTime" INTEGER, "ncal:class" INTEGER,
"ncal:class:graph" INTEGER, "ncal:organizer" INTEGER,
"ncal:organizer:graph" INTEGER, "ncal:dtend" INTEGER,
"ncal:dtend:graph" INTEGER, "ncal:summary" TEXT COLLATE NOCASE,
"ncal:summary:graph" INTEGER, "ncal:descriptionAltRep" INTEGER,
"ncal:descriptionAltRep:graph" INTEGER, "ncal:commentAltRep" INTEGER,
"ncal:commentAltRep:graph" INTEGER, "ncal:sequence" INTEGER,
"ncal:sequence:graph" INTEGER, "ncal:contact" TEXT COLLATE NOCASE,
"ncal:contact:graph" INTEGER, "ncal:contactAltRep" INTEGER,

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"ncal:contactAltRep:graph" INTEGER, "ncal:locationAltRep" INTEGER,
"ncal:locationAltRep:graph" INTEGER, "ncal:geo" INTEGER,
"ncal:geo:graph" INTEGER, "ncal:resourcesAltRep" INTEGER,
"ncal:resourcesAltRep:graph" INTEGER, "ncal:dtstart" INTEGER,
"ncal:dtstart:graph" INTEGER, "ncal:description" TEXT COLLATE NOCASE,
"ncal:description:graph" INTEGER, "ncal:relatedToSibling" TEXT COLLATE
NOCASE, "ncal:relatedToSibling:graph" INTEGER, "ncal:duration"
INTEGER, "ncal:duration:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:attach" (ID INTEGER NOT NULL,
"ncal:attach" INTEGER NOT NULL, "ncal:attach:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:attendee" (ID INTEGER NOT
NULL, "ncal:attendee" INTEGER NOT NULL, "ncal:attendee:graph"
INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:categories" (ID INTEGER NOT
NULL, "ncal:categories" TEXT NOT NULL, "ncal:categories:graph"
INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exdate" (ID INTEGER NOT NULL,
"ncal:exdate" INTEGER NOT NULL, "ncal:exdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exrule" (ID INTEGER NOT NULL,
"ncal:exrule" INTEGER NOT NULL, "ncal:exrule:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:hasAlarm" (ID INTEGER NOT
NULL, "ncal:hasAlarm" INTEGER NOT NULL, "ncal:hasAlarm:graph"
INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:ncalRelation" (ID INTEGER NOT
NULL, "ncal:ncalRelation" TEXT NOT NULL, "ncal:ncalRelation:graph"
INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:rdate" (ID INTEGER NOT NULL,
"ncal:rdate" INTEGER NOT NULL, "ncal:rdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToChild" (ID INTEGER
NOT NULL, "ncal:relatedToChild" TEXT NOT NULL,
"ncal:relatedToChild:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToParent" (ID INTEGER
NOT NULL, "ncal:relatedToParent" TEXT NOT NULL,
"ncal:relatedToParent:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:resources" (ID INTEGER NOT
NULL, "ncal:resources" TEXT NOT NULL, "ncal:resources:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:rrule" (ID INTEGER NOT NULL,
"ncal:rrule" INTEGER NOT NULL, "ncal:rrule:graph" INTEGER);
CREATE TABLE "ncal:Weekday" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Affiliation" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:department" TEXT COLLATE NOCASE, "nco:department:graph" INTEGER,
"nco:org" INTEGER, "nco:org:graph" INTEGER, "nco:role" TEXT COLLATE
NOCASE, "nco:role:graph" INTEGER);
CREATE TABLE "nco:Affiliation_nco:title" (ID INTEGER NOT NULL,
"nco:title" TEXT NOT NULL, "nco:title:graph" INTEGER);
CREATE TABLE "nco:AuthorizationStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:BbsNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:CarPhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);

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CREATE TABLE "nco:CellPhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Contact" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:fullname" TEXT COLLATE NOCASE, "nco:fullname:graph" INTEGER,
"nco:key" INTEGER, "nco:key:graph" INTEGER, "nco:contactUID" TEXT
COLLATE NOCASE, "nco:contactUID:graph" INTEGER, "nco:contactLocalUID"
TEXT COLLATE NOCASE, "nco:contactLocalUID:graph" INTEGER,
"nco:hasLocation" INTEGER, "nco:hasLocation:graph" INTEGER,
"nco:nickname" TEXT COLLATE NOCASE, "nco:nickname:graph" INTEGER,
"nco:representative" INTEGER, "nco:representative:graph" INTEGER,
"nco:photo" INTEGER, "nco:photo:graph" INTEGER, "nco:birthDate"
INTEGER, "nco:birthDate:graph" INTEGER, "nco:birthDate:localDate"
INTEGER, "nco:birthDate:localTime" INTEGER, "nco:sound" INTEGER,
"nco:sound:graph" INTEGER);
CREATE TABLE "nco:ContactGroup" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:contactGroupName" TEXT COLLATE NOCASE,
"nco:contactGroupName:graph" INTEGER);
CREATE TABLE "nco:ContactList" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ContactListDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ContactList_nco:containsContact" (ID INTEGER NOT
NULL, "nco:containsContact" INTEGER NOT NULL,
"nco:containsContact:graph" INTEGER);
CREATE TABLE "nco:ContactMedium" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:contactMediumComment" TEXT COLLATE NOCASE,
"nco:contactMediumComment:graph" INTEGER);
CREATE TABLE "nco:Contact_ncal:anniversary" (ID INTEGER NOT NULL,
"ncal:anniversary" INTEGER NOT NULL, "ncal:anniversary:graph"
INTEGER);
CREATE TABLE "nco:Contact_ncal:birthday" (ID INTEGER NOT NULL,
"ncal:birthday" INTEGER NOT NULL, "ncal:birthday:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:belongsToGroup" (ID INTEGER NOT NULL,
"nco:belongsToGroup" INTEGER NOT NULL, "nco:belongsToGroup:graph"
INTEGER);
CREATE TABLE "nco:Contact_nco:note" (ID INTEGER NOT NULL, "nco:note"
TEXT NOT NULL, "nco:note:graph" INTEGER);
CREATE TABLE "nco:Contact_scal:anniversary" (ID INTEGER NOT NULL,
"scal:anniversary" INTEGER NOT NULL, "scal:anniversary:graph"
INTEGER);
CREATE TABLE "nco:Contact_scal:birthday" (ID INTEGER NOT NULL,
"scal:birthday" INTEGER NOT NULL, "scal:birthday:graph" INTEGER);
CREATE TABLE "nco:DomesticDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:EmailAddress" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:emailAddress" TEXT COLLATE NOCASE UNIQUE,
"nco:emailAddress:graph" INTEGER);
CREATE TABLE "nco:FaxNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Gender" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:IMAccount" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:imAccountAddress" INTEGER UNIQUE, "nco:imAccountAddress:graph"
INTEGER, "nco:imAccountType" TEXT COLLATE NOCASE,

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"nco:imAccountType:graph" INTEGER, "nco:imDisplayName" TEXT COLLATE
NOCASE, "nco:imDisplayName:graph" INTEGER, "nco:imEnabled" INTEGER,
"nco:imEnabled:graph" INTEGER);
CREATE TABLE "nco:IMAccount_nco:hasIMContact" (ID INTEGER NOT NULL,
"nco:hasIMContact" INTEGER NOT NULL, "nco:hasIMContact:graph"
INTEGER);
CREATE TABLE "nco:IMAddress" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:imID" TEXT COLLATE NOCASE, "nco:imID:graph" INTEGER,
"nco:imNickname" TEXT COLLATE NOCASE, "nco:imNickname:graph" INTEGER,
"nco:imAvatar" INTEGER, "nco:imAvatar:graph" INTEGER, "nco:imProtocol"
TEXT COLLATE NOCASE, "nco:imProtocol:graph" INTEGER,
"nco:imStatusMessage" TEXT COLLATE NOCASE,
"nco:imStatusMessage:graph" INTEGER, "nco:imPresence" INTEGER,
"nco:imPresence:graph" INTEGER, "nco:presenceLastModified" INTEGER,
"nco:presenceLastModified:graph" INTEGER,
"nco:presenceLastModified:localDate" INTEGER,
"nco:presenceLastModified:localTime" INTEGER,
"nco:imAddressAuthStatusFrom" INTEGER,
"nco:imAddressAuthStatusFrom:graph" INTEGER,
"nco:imAddressAuthStatusTo" INTEGER, "nco:imAddressAuthStatusTo:graph"
INTEGER);
CREATE TABLE "nco:IMAddress_nco:imCapability" (ID INTEGER NOT NULL,
"nco:imCapability" INTEGER NOT NULL, "nco:imCapability:graph"
INTEGER);
CREATE TABLE "nco:IMCapability" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:InternationalDeliveryAddress" (ID INTEGER NOT NULL
PRIMARY KEY);
CREATE TABLE "nco:IsdnNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:MessagingNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ModemNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:OrganizationContact" (ID INTEGER NOT NULL PRIMARY
KEY, "nco:logo" INTEGER, "nco:logo:graph" INTEGER);
CREATE TABLE "nco:PagerNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ParcelDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:PcsNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:PersonContact" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:nameFamily" TEXT COLLATE NOCASE, "nco:nameFamily:graph" INTEGER,
"nco:nameGiven" TEXT COLLATE NOCASE, "nco:nameGiven:graph" INTEGER,
"nco:nameAdditional" TEXT COLLATE NOCASE, "nco:nameAdditional:graph"
INTEGER, "nco:nameHonorificSuffix" TEXT COLLATE NOCASE,
"nco:nameHonorificSuffix:graph" INTEGER, "nco:nameHonorificPrefix"
TEXT COLLATE NOCASE, "nco:nameHonorificPrefix:graph" INTEGER,
"nco:hobby" TEXT COLLATE NOCASE, "nco:hobby:graph" INTEGER,
"nco:gender" INTEGER, "nco:gender:graph" INTEGER);
CREATE TABLE "nco:PersonContact_nco:hasAffiliation" (ID INTEGER NOT
NULL, "nco:hasAffiliation" INTEGER NOT NULL,
"nco:hasAffiliation:graph" INTEGER);
CREATE TABLE "nco:PhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY,

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"nco:phoneNumber" TEXT COLLATE NOCASE, "nco:phoneNumber:graph"
INTEGER);
CREATE TABLE "nco:PostalAddress" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:region" TEXT COLLATE NOCASE, "nco:region:graph" INTEGER,
"nco:country" TEXT COLLATE NOCASE, "nco:country:graph" INTEGER,
"nco:extendedAddress" TEXT COLLATE NOCASE,
"nco:extendedAddress:graph" INTEGER, "nco:addressLocation" INTEGER,
"nco:addressLocation:graph" INTEGER, "nco:streetAddress" TEXT COLLATE
NOCASE, "nco:streetAddress:graph" INTEGER, "nco:postalcode" TEXT
COLLATE NOCASE, "nco:postalcode:graph" INTEGER, "nco:locality" TEXT
COLLATE NOCASE, "nco:locality:graph" INTEGER, "nco:county" TEXT
COLLATE NOCASE, "nco:county:graph" INTEGER, "nco:district" TEXT
COLLATE NOCASE, "nco:district:graph" INTEGER, "nco:pobox" TEXT
COLLATE NOCASE, "nco:pobox:graph" INTEGER);
CREATE TABLE "nco:PresenceStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Role" (ID INTEGER NOT NULL PRIMARY KEY, "nco:video"
INTEGER, "nco:video:graph" INTEGER);
CREATE TABLE "nco:Role_nco:blogUrl" (ID INTEGER NOT NULL,
"nco:blogUrl" INTEGER NOT NULL, "nco:blogUrl:graph" INTEGER);
CREATE TABLE "nco:Role_nco:foafUrl" (ID INTEGER NOT NULL,
"nco:foafUrl" INTEGER NOT NULL, "nco:foafUrl:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasContactMedium" (ID INTEGER NOT NULL,
"nco:hasContactMedium" INTEGER NOT NULL, "nco:hasContactMedium:graph"
INTEGER);
CREATE TABLE "nco:Role_nco:hasEmailAddress" (ID INTEGER NOT NULL,
"nco:hasEmailAddress" INTEGER NOT NULL, "nco:hasEmailAddress:graph"
INTEGER);
CREATE TABLE "nco:Role_nco:hasIMAddress" (ID INTEGER NOT NULL,
"nco:hasIMAddress" INTEGER NOT NULL, "nco:hasIMAddress:graph"
INTEGER);
CREATE TABLE "nco:Role_nco:hasPhoneNumber" (ID INTEGER NOT NULL,
"nco:hasPhoneNumber" INTEGER NOT NULL, "nco:hasPhoneNumber:graph"
INTEGER);
CREATE TABLE "nco:Role_nco:hasPostalAddress" (ID INTEGER NOT NULL,
"nco:hasPostalAddress" INTEGER NOT NULL, "nco:hasPostalAddress:graph"
INTEGER);
CREATE TABLE "nco:Role_nco:url" (ID INTEGER NOT NULL, "nco:url"
INTEGER NOT NULL, "nco:url:graph" INTEGER);
CREATE TABLE "nco:Role_nco:websiteUrl" (ID INTEGER NOT NULL,
"nco:websiteUrl" INTEGER NOT NULL, "nco:websiteUrl:graph" INTEGER);
CREATE TABLE "nco:VideoTelephoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:VoicePhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:voiceMail" INTEGER, "nco:voiceMail:graph" INTEGER);
CREATE TABLE "nfo:Application" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Archive" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:uncompressedSize" INTEGER, "nfo:uncompressedSize:graph" INTEGER);
CREATE TABLE "nfo:ArchiveItem" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:isPasswordProtected" INTEGER, "nfo:isPasswordProtected:graph"

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INTEGER);
CREATE TABLE "nfo:Attachment" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Audio" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:channels" INTEGER, "nfo:channels:graph" INTEGER,
"nfo:sideChannels" INTEGER, "nfo:sideChannels:graph" INTEGER,
"nfo:lfeChannels" INTEGER, "nfo:lfeChannels:graph" INTEGER,
"nfo:sampleCount" INTEGER, "nfo:sampleCount:graph" INTEGER,
"nfo:bitsPerSample" INTEGER, "nfo:bitsPerSample:graph" INTEGER,
"nfo:frontChannels" INTEGER, "nfo:frontChannels:graph" INTEGER,
"nfo:sampleRate" REAL, "nfo:sampleRate:graph" INTEGER,
"nfo:averageAudioBitrate" REAL, "nfo:averageAudioBitrate:graph"
INTEGER, "nfo:rearChannels" INTEGER, "nfo:rearChannels:graph" INTEGER,
"nfo:gain" INTEGER, "nfo:gain:graph" INTEGER, "nfo:peakGain" INTEGER,
"nfo:peakGain:graph" INTEGER, "nfo:audioOffset" REAL,
"nfo:audioOffset:graph" INTEGER);
CREATE TABLE "nfo:Bookmark" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:bookmarks" INTEGER, "nfo:bookmarks:graph" INTEGER,
"nfo:characterPosition" INTEGER, "nfo:characterPosition:graph"
INTEGER, "nfo:pageNumber" INTEGER, "nfo:pageNumber:graph" INTEGER,
"nfo:streamPosition" INTEGER, "nfo:streamPosition:graph" INTEGER,
"nfo:streamDuration" INTEGER, "nfo:streamDuration:graph" INTEGER);
CREATE TABLE "nfo:BookmarkFolder" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmark" (ID INTEGER NOT
NULL, "nfo:containsBookmark" INTEGER NOT NULL,
"nfo:containsBookmark:graph" INTEGER);
CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmarkFolder" (ID
INTEGER NOT NULL, "nfo:containsBookmarkFolder" INTEGER NOT NULL,
"nfo:containsBookmarkFolder:graph" INTEGER);
CREATE TABLE "nfo:CompressionType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Cursor" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:DataContainer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:DeletedResource" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:originalLocation" TEXT COLLATE NOCASE,
"nfo:originalLocation:graph" INTEGER, "nfo:deletionDate" INTEGER,
"nfo:deletionDate:graph" INTEGER, "nfo:deletionDate:localDate"
INTEGER, "nfo:deletionDate:localTime" INTEGER);
CREATE TABLE "nfo:Document" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:tableOfContents" TEXT COLLATE NOCASE,
"nfo:tableOfContents:graph" INTEGER);
CREATE TABLE "nfo:EmbeddedFileDataObject" (ID INTEGER NOT NULL PRIMARY
KEY, "nfo:encoding" TEXT COLLATE NOCASE, "nfo:encoding:graph"
INTEGER);
CREATE TABLE "nfo:Equipment" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:manufacturer" TEXT COLLATE NOCASE, "nfo:manufacturer:graph"
INTEGER, "nfo:model" TEXT COLLATE NOCASE, "nfo:model:graph" INTEGER,
"nfo:equipmentSoftware" TEXT COLLATE NOCASE,
"nfo:equipmentSoftware:graph" INTEGER);
CREATE TABLE "nfo:Executable" (ID INTEGER NOT NULL PRIMARY KEY);

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CREATE TABLE "nfo:FileDataObject" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:fileLastAccessed" INTEGER, "nfo:fileLastAccessed:graph" INTEGER,
"nfo:fileLastAccessed:localDate" INTEGER,
"nfo:fileLastAccessed:localTime" INTEGER, "nfo:fileCreated" INTEGER,
"nfo:fileCreated:graph" INTEGER, "nfo:fileCreated:localDate" INTEGER,
"nfo:fileCreated:localTime" INTEGER, "nfo:fileSize" INTEGER,
"nfo:fileSize:graph" INTEGER, "nfo:permissions" TEXT COLLATE NOCASE,
"nfo:permissions:graph" INTEGER, "nfo:fileName" TEXT COLLATE NOCASE,
"nfo:fileName:graph" INTEGER, "nfo:hashCode" INTEGER,
"nfo:hashCode:graph" INTEGER, "nfo:fileOwner" INTEGER,
"nfo:fileOwner:graph" INTEGER, "nfo:fileLastModified" INTEGER,
"nfo:fileLastModified:graph" INTEGER, "nfo:fileLastModified:localDate"
INTEGER, "nfo:fileLastModified:localTime" INTEGER);
CREATE TABLE "nfo:FileHash" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:hashValue" TEXT COLLATE NOCASE, "nfo:hashValue:graph" INTEGER,
"nfo:hashAlgorithm" TEXT COLLATE NOCASE, "nfo:hashAlgorithm:graph"
INTEGER);
CREATE TABLE "nfo:Filesystem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:FilesystemImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Folder" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Font" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:fontFamily" TEXT COLLATE NOCASE, "nfo:fontFamily:graph" INTEGER,
"nfo:foundry" INTEGER, "nfo:foundry:graph" INTEGER);
CREATE TABLE "nfo:HardDiskPartition" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:HelpDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:HtmlDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Icon" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Image" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:verticalResolution" INTEGER, "nfo:verticalResolution:graph"
INTEGER, "nfo:horizontalResolution" INTEGER,
"nfo:horizontalResolution:graph" INTEGER, "nfo:orientation" INTEGER,
"nfo:orientation:graph" INTEGER);
CREATE TABLE "nfo:Image_nfo:depicts" (ID INTEGER NOT NULL,
"nfo:depicts" INTEGER NOT NULL, "nfo:depicts:graph" INTEGER);
CREATE TABLE "nfo:Image_nfo:hasRegionOfInterest" (ID INTEGER NOT NULL,
"nfo:hasRegionOfInterest" INTEGER NOT NULL,
"nfo:hasRegionOfInterest:graph" INTEGER);
CREATE TABLE "nfo:Media" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:count"
INTEGER, "nfo:count:graph" INTEGER, "nfo:duration" INTEGER,
"nfo:duration:graph" INTEGER, "nfo:compressionType" INTEGER,
"nfo:compressionType:graph" INTEGER, "nfo:hasMediaStream" INTEGER,
"nfo:hasMediaStream:graph" INTEGER, "nfo:bitDepth" INTEGER,
"nfo:bitDepth:graph" INTEGER, "nfo:codec" TEXT COLLATE NOCASE,
"nfo:codec:graph" INTEGER, "nfo:encodedBy" TEXT COLLATE NOCASE,
"nfo:encodedBy:graph" INTEGER, "nfo:bitrateType" TEXT COLLATE NOCASE,
"nfo:bitrateType:graph" INTEGER, "nfo:averageBitrate" REAL,
"nfo:averageBitrate:graph" INTEGER, "nfo:genre" TEXT COLLATE NOCASE,
"nfo:genre:graph" INTEGER, "nfo:equipment" INTEGER,

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"nfo:equipment:graph" INTEGER, "nfo:lastPlayedPosition" INTEGER,
"nfo:lastPlayedPosition:graph" INTEGER, "nmm:genre" TEXT COLLATE
NOCASE, "nmm:genre:graph" INTEGER, "nmm:skipCounter" INTEGER,
"nmm:skipCounter:graph" INTEGER, "nmm:dlnaProfile" TEXT COLLATE
NOCASE, "nmm:dlnaProfile:graph" INTEGER, "nmm:dlnaMime" TEXT COLLATE
NOCASE, "nmm:dlnaMime:graph" INTEGER, "nmm:uPnPShared" INTEGER,
"nmm:uPnPShared:graph" INTEGER, "mtp:credits" TEXT COLLATE NOCASE,
"mtp:credits:graph" INTEGER, "mtp:creator" TEXT COLLATE NOCASE,
"mtp:creator:graph" INTEGER);
CREATE TABLE "nfo:MediaFileListEntry" (ID INTEGER NOT NULL PRIMARY
KEY, "nfo:listPosition" REAL, "nfo:listPosition:graph" INTEGER,
"nfo:entryUrl" TEXT COLLATE NOCASE, "nfo:entryUrl:graph" INTEGER);
CREATE TABLE "nfo:MediaList" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:entryCounter" INTEGER, "nfo:entryCounter:graph" INTEGER,
"nfo:listDuration" INTEGER, "nfo:listDuration:graph" INTEGER);
CREATE TABLE "nfo:MediaList_nfo:hasMediaFileListEntry" (ID INTEGER NOT
NULL, "nfo:hasMediaFileListEntry" INTEGER NOT NULL,
"nfo:hasMediaFileListEntry:graph" INTEGER);
CREATE TABLE "nfo:MediaList_nfo:mediaListEntry" (ID INTEGER NOT NULL,
"nfo:mediaListEntry" INTEGER NOT NULL, "nfo:mediaListEntry:graph"
INTEGER);
CREATE TABLE "nfo:MediaStream" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Media_mtp:hidden" (ID INTEGER NOT NULL, "mtp:hidden"
INTEGER NOT NULL, "mtp:hidden:graph" INTEGER);
CREATE TABLE "nfo:Media_nmm:alternativeMedia" (ID INTEGER NOT NULL,
"nmm:alternativeMedia" INTEGER NOT NULL, "nmm:alternativeMedia:graph"
INTEGER);
CREATE TABLE "nfo:MindMap" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Note" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:OperatingSystem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Orientation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:PaginatedTextDocument" (ID INTEGER NOT NULL PRIMARY
KEY, "nfo:pageCount" INTEGER, "nfo:pageCount:graph" INTEGER);
CREATE TABLE "nfo:PlainTextDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Presentation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RasterImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RegionOfInterest" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:regionOfInterestX" REAL, "nfo:regionOfInterestX:graph" INTEGER,
"nfo:regionOfInterestY" REAL, "nfo:regionOfInterestY:graph" INTEGER,
"nfo:regionOfInterestWidth" REAL, "nfo:regionOfInterestWidth:graph"
INTEGER, "nfo:regionOfInterestHeight" REAL,
"nfo:regionOfInterestHeight:graph" INTEGER, "nfo:regionOfInterestType"
INTEGER, "nfo:regionOfInterestType:graph" INTEGER, "nfo:roiRefersTo"
INTEGER, "nfo:roiRefersTo:graph" INTEGER);
CREATE TABLE "nfo:RegionOfInterestContent" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RemoteDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RemotePortAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Software" (ID INTEGER NOT NULL PRIMARY KEY,

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"nfo:conflicts" INTEGER, "nfo:conflicts:graph" INTEGER,
"nfo:supercedes" INTEGER, "nfo:supercedes:graph" INTEGER,
"nfo:softwareIcon" INTEGER, "nfo:softwareIcon:graph" INTEGER,
"nfo:softwareCmdLine" TEXT COLLATE NOCASE,
"nfo:softwareCmdLine:graph" INTEGER);
CREATE TABLE "nfo:SoftwareApplication" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SoftwareCategory" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:softwareCategoryIcon" INTEGER, "nfo:softwareCategoryIcon:graph"
INTEGER);
CREATE TABLE "nfo:SoftwareItem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SoftwareService" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SourceCode" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:commentCharacterCount" INTEGER, "nfo:commentCharacterCount:graph"
INTEGER, "nfo:programmingLanguage" TEXT COLLATE NOCASE,
"nfo:programmingLanguage:graph" INTEGER, "nfo:definesClass" TEXT
COLLATE NOCASE, "nfo:definesClass:graph" INTEGER,
"nfo:definesFunction" TEXT COLLATE NOCASE,
"nfo:definesFunction:graph" INTEGER, "nfo:definesGlobalVariable" TEXT
COLLATE NOCASE, "nfo:definesGlobalVariable:graph" INTEGER);
CREATE TABLE "nfo:Spreadsheet" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:TextDocument" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:wordCount" INTEGER, "nfo:wordCount:graph" INTEGER,
"nfo:lineCount" INTEGER, "nfo:lineCount:graph" INTEGER,
"nfo:characterCount" INTEGER, "nfo:characterCount:graph" INTEGER);
CREATE TABLE "nfo:Trash" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:VectorImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Video" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:frameRate" REAL, "nfo:frameRate:graph" INTEGER, "nfo:frameCount"
INTEGER, "nfo:frameCount:graph" INTEGER, "nfo:averageVideoBitrate"
REAL, "nfo:averageVideoBitrate:graph" INTEGER);
CREATE TABLE "nfo:Visual" (ID INTEGER NOT NULL PRIMARY KEY,
"nie:contentCreated" INTEGER, "nie:contentCreated:graph" INTEGER,
"nie:contentCreated:localDate" INTEGER, "nie:contentCreated:localTime"
INTEGER, "nfo:aspectRatio" REAL, "nfo:aspectRatio:graph" INTEGER,
"nfo:heading" REAL, "nfo:heading:graph" INTEGER, "nfo:tilt" REAL,
"nfo:tilt:graph" INTEGER, "nfo:interlaceMode" INTEGER,
"nfo:interlaceMode:graph" INTEGER, "nfo:height" INTEGER,
"nfo:height:graph" INTEGER, "nfo:width" INTEGER, "nfo:width:graph"
INTEGER, "nfo:colorDepth" INTEGER, "nfo:colorDepth:graph" INTEGER);
CREATE TABLE "nfo:WebHistory" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:domain" TEXT COLLATE NOCASE, "nfo:domain:graph" INTEGER,
"nfo:uri" TEXT COLLATE NOCASE, "nfo:uri:graph" INTEGER);
CREATE TABLE "nfo:Website" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nid3:ID3Audio" (ID INTEGER NOT NULL PRIMARY KEY,
"nid3:title" TEXT COLLATE NOCASE, "nid3:title:graph" INTEGER,
"nid3:albumTitle" TEXT COLLATE NOCASE, "nid3:albumTitle:graph"
INTEGER, "nid3:contentType" TEXT COLLATE NOCASE,
"nid3:contentType:graph" INTEGER, "nid3:length" INTEGER,

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"nid3:length:graph" INTEGER, "nid3:recordingYear" INTEGER,
"nid3:recordingYear:graph" INTEGER, "nid3:trackNumber" TEXT COLLATE
NOCASE, "nid3:trackNumber:graph" INTEGER, "nid3:partOfSet" TEXT
COLLATE NOCASE, "nid3:partOfSet:graph" INTEGER, "nid3:comments" TEXT
COLLATE NOCASE, "nid3:comments:graph" INTEGER);
CREATE TABLE "nid3:ID3Audio_nid3:leadArtist" (ID INTEGER NOT NULL,
"nid3:leadArtist" INTEGER NOT NULL, "nid3:leadArtist:graph" INTEGER);
CREATE TABLE "nie:DataObject" (ID INTEGER NOT NULL PRIMARY KEY,
"nie:url" TEXT COLLATE NOCASE UNIQUE, "nie:url:graph" INTEGER,
"nie:byteSize" INTEGER, "nie:byteSize:graph" INTEGER,
"nie:interpretedAs" INTEGER, "nie:interpretedAs:graph" INTEGER,
"nie:lastRefreshed" INTEGER, "nie:lastRefreshed:graph" INTEGER,
"nie:lastRefreshed:localDate" INTEGER, "nie:lastRefreshed:localTime"
INTEGER, "nie:created" INTEGER, "nie:created:graph" INTEGER,
"nie:created:localDate" INTEGER, "nie:created:localTime" INTEGER,
"nfo:belongsToContainer" INTEGER, "nfo:belongsToContainer:graph"
INTEGER, "tracker:available" INTEGER, "tracker:available:graph"
INTEGER);
CREATE TABLE "nie:DataObject_nie:dataSource" (ID INTEGER NOT NULL,
"nie:dataSource" INTEGER NOT NULL, "nie:dataSource:graph" INTEGER);
CREATE TABLE "nie:DataObject_nie:isPartOf" (ID INTEGER NOT NULL,
"nie:isPartOf" INTEGER NOT NULL, "nie:isPartOf:graph" INTEGER);
CREATE TABLE "nie:DataSource" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nie:InformationElement" (ID INTEGER NOT NULL PRIMARY
KEY, "nie:title" TEXT COLLATE NOCASE, "nie:title:graph" INTEGER,
"nie:contentLastModified" INTEGER, "nie:contentLastModified:graph"
INTEGER, "nie:contentLastModified:localDate" INTEGER,
"nie:contentLastModified:localTime" INTEGER, "nie:subject" TEXT
COLLATE NOCASE, "nie:subject:graph" INTEGER, "nie:mimeType" TEXT
COLLATE NOCASE, "nie:mimeType:graph" INTEGER, "nie:language" TEXT
COLLATE NOCASE, "nie:language:graph" INTEGER, "nie:plainTextContent"
TEXT COLLATE NOCASE, "nie:plainTextContent:graph" INTEGER,
"nie:legal" TEXT COLLATE NOCASE, "nie:legal:graph" INTEGER,
"nie:generator" TEXT COLLATE NOCASE, "nie:generator:graph" INTEGER,
"nie:description" TEXT COLLATE NOCASE, "nie:description:graph"
INTEGER, "nie:disclaimer" TEXT COLLATE NOCASE, "nie:disclaimer:graph"
INTEGER, "nie:depends" INTEGER, "nie:depends:graph" INTEGER,
"nie:links" INTEGER, "nie:links:graph" INTEGER, "nie:copyright" TEXT
COLLATE NOCASE, "nie:copyright:graph" INTEGER, "nie:comment" TEXT
COLLATE NOCASE, "nie:comment:graph" INTEGER, "nie:isStoredAs"
INTEGER, "nie:isStoredAs:graph" INTEGER, "nie:version" TEXT COLLATE
NOCASE, "nie:version:graph" INTEGER, "nie:contentCreated" INTEGER,
"nie:contentCreated:graph" INTEGER, "nie:contentCreated:localDate"
INTEGER, "nie:contentCreated:localTime" INTEGER, "nie:contentAccessed"
INTEGER, "nie:contentAccessed:graph" INTEGER,
"nie:contentAccessed:localDate" INTEGER,
"nie:contentAccessed:localTime" INTEGER, "nie:license" TEXT COLLATE
NOCASE, "nie:license:graph" INTEGER, "nie:identifier" TEXT COLLATE

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NOCASE, "nie:identifier:graph" INTEGER, "nie:licenseType" TEXT
COLLATE NOCASE, "nie:licenseType:graph" INTEGER, "nie:characterSet"
TEXT COLLATE NOCASE, "nie:characterSet:graph" INTEGER,
"nie:contentSize" INTEGER, "nie:contentSize:graph" INTEGER,
"nie:rootElementOf" INTEGER, "nie:rootElementOf:graph" INTEGER,
"nie:usageCounter" INTEGER, "nie:usageCounter:graph" INTEGER,
"nco:publisher" INTEGER, "nco:publisher:graph" INTEGER,
"nfo:isContentEncrypted" INTEGER, "nfo:isContentEncrypted:graph"
INTEGER, "slo:location" INTEGER, "slo:location:graph" INTEGER,
"nfo:isBootable" INTEGER, "nfo:isBootable:graph" INTEGER, "osinfo:id"
TEXT COLLATE NOCASE, "osinfo:id:graph" INTEGER, "osinfo:mediaId" TEXT
COLLATE NOCASE, "osinfo:mediaId:graph" INTEGER);
CREATE TABLE "nie:InformationElement_mlo:location" (ID INTEGER NOT
NULL, "mlo:location" INTEGER NOT NULL, "mlo:location:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nao:hasProperty" (ID INTEGER NOT
NULL, "nao:hasProperty" INTEGER NOT NULL, "nao:hasProperty:graph"
INTEGER);
CREATE TABLE "nie:InformationElement_nco:contributor" (ID INTEGER NOT
NULL, "nco:contributor" INTEGER NOT NULL, "nco:contributor:graph"
INTEGER);
CREATE TABLE "nie:InformationElement_nco:creator" (ID INTEGER NOT
NULL, "nco:creator" INTEGER NOT NULL, "nco:creator:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:hasLogicalPart" (ID INTEGER
NOT NULL, "nie:hasLogicalPart" INTEGER NOT NULL,
"nie:hasLogicalPart:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:hasPart" (ID INTEGER NOT
NULL, "nie:hasPart" INTEGER NOT NULL, "nie:hasPart:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:informationElementDate" (ID
INTEGER NOT NULL, "nie:informationElementDate" INTEGER NOT NULL,
"nie:informationElementDate:graph" INTEGER,
"nie:informationElementDate:localDate" INTEGER NOT NULL,
"nie:informationElementDate:localTime" INTEGER NOT NULL);
CREATE TABLE "nie:InformationElement_nie:isLogicalPartOf" (ID INTEGER
NOT NULL, "nie:isLogicalPartOf" INTEGER NOT NULL,
"nie:isLogicalPartOf:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:keyword" (ID INTEGER NOT
NULL, "nie:keyword" TEXT NOT NULL, "nie:keyword:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:relatedTo" (ID INTEGER NOT
NULL, "nie:relatedTo" INTEGER NOT NULL, "nie:relatedTo:graph"
INTEGER);
CREATE TABLE "nmm:AnalogRadio" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:modulation" INTEGER, "nmm:modulation:graph" INTEGER,
"nmm:frequency" INTEGER, "nmm:frequency:graph" INTEGER);
CREATE TABLE "nmm:Artist" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:artistName" TEXT COLLATE NOCASE, "nmm:artistName:graph"
INTEGER);
CREATE TABLE "nmm:DigitalRadio" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:streamingBitrate" INTEGER, "nmm:streamingBitrate:graph" INTEGER,

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"nmm:encoding" TEXT COLLATE NOCASE, "nmm:encoding:graph" INTEGER,
"nmm:protocol" TEXT COLLATE NOCASE, "nmm:protocol:graph" INTEGER);
CREATE TABLE "nmm:Flash" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:ImageList" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:MeteringMode" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:MusicAlbum" (ID INTEGER NOT NULL PRIMARY KEY,
"nie:title" TEXT COLLATE NOCASE, "nie:title:graph" INTEGER,
"nmm:albumTrackCount" INTEGER, "nmm:albumTrackCount:graph" INTEGER,
"nmm:albumTitle" TEXT COLLATE NOCASE, "nmm:albumTitle:graph" INTEGER,
"nmm:albumDuration" INTEGER, "nmm:albumDuration:graph" INTEGER,
"nmm:albumGain" INTEGER, "nmm:albumGain:graph" INTEGER,
"nmm:albumPeakGain" INTEGER, "nmm:albumPeakGain:graph" INTEGER);
CREATE TABLE "nmm:MusicAlbumDisc" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:albumDiscAlbum" INTEGER, "nmm:albumDiscAlbum:graph" INTEGER,
"nmm:musicCDIdentifier" TEXT COLLATE NOCASE,
"nmm:musicCDIdentifier:graph" INTEGER, "nmm:setNumber" INTEGER,
"nmm:setNumber:graph" INTEGER);
CREATE TABLE "nmm:MusicAlbum_nmm:albumArtist" (ID INTEGER NOT NULL,
"nmm:albumArtist" INTEGER NOT NULL, "nmm:albumArtist:graph" INTEGER);
CREATE TABLE "nmm:MusicPiece" (ID INTEGER NOT NULL PRIMARY KEY,
"nie:title" TEXT COLLATE NOCASE, "nie:title:graph" INTEGER,
"nmm:musicAlbum" INTEGER, "nmm:musicAlbum:graph" INTEGER,
"nmm:musicAlbumDisc" INTEGER, "nmm:musicAlbumDisc:graph" INTEGER,
"nmm:beatsPerMinute" INTEGER, "nmm:beatsPerMinute:graph" INTEGER,
"nmm:performer" INTEGER, "nmm:performer:graph" INTEGER, "nmm:composer"
INTEGER, "nmm:composer:graph" INTEGER, "nmm:lyricist" INTEGER,
"nmm:lyricist:graph" INTEGER, "nmm:trackNumber" INTEGER,
"nmm:trackNumber:graph" INTEGER,
"nmm:internationalStandardRecordingCode" TEXT COLLATE NOCASE,
"nmm:internationalStandardRecordingCode:graph" INTEGER);
CREATE TABLE "nmm:MusicPiece_nmm:lyrics" (ID INTEGER NOT NULL,
"nmm:lyrics" INTEGER NOT NULL, "nmm:lyrics:graph" INTEGER);
CREATE TABLE "nmm:Photo" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:exposureTime" REAL, "nmm:exposureTime:graph" INTEGER, "nmm:flash"
INTEGER, "nmm:flash:graph" INTEGER, "nmm:fnumber" REAL,
"nmm:fnumber:graph" INTEGER, "nmm:focalLength" REAL,
"nmm:focalLength:graph" INTEGER, "nmm:isoSpeed" REAL,
"nmm:isoSpeed:graph" INTEGER, "nmm:meteringMode" INTEGER,
"nmm:meteringMode:graph" INTEGER, "nmm:whiteBalance" INTEGER,
"nmm:whiteBalance:graph" INTEGER, "nmm:isCropped" INTEGER,
"nmm:isCropped:graph" INTEGER, "nmm:isColorCorrected" INTEGER,
"nmm:isColorCorrected:graph" INTEGER);
CREATE TABLE "nmm:Playlist" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:RadioModulation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:RadioStation" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:radioIcon" INTEGER, "nmm:radioIcon:graph" INTEGER, "nmm:radioPTY"
INTEGER, "nmm:radioPTY:graph" INTEGER);
CREATE TABLE "nmm:RadioStation_nmm:carrier" (ID INTEGER NOT NULL,

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"nmm:carrier" INTEGER NOT NULL, "nmm:carrier:graph" INTEGER);
CREATE TABLE "nmm:SynchronizedText" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:isForHearingImpaired" INTEGER, "nmm:isForHearingImpaired:graph"
INTEGER);
CREATE TABLE "nmm:Video" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:videoAlbum" INTEGER, "nmm:videoAlbum:graph" INTEGER,
"nmm:isSeries" INTEGER, "nmm:isSeries:graph" INTEGER, "nmm:season"
INTEGER, "nmm:season:graph" INTEGER, "nmm:episodeNumber" INTEGER,
"nmm:episodeNumber:graph" INTEGER, "nmm:runTime" INTEGER,
"nmm:runTime:graph" INTEGER, "nmm:synopsis" TEXT COLLATE NOCASE,
"nmm:synopsis:graph" INTEGER, "nmm:MPAARating" TEXT COLLATE NOCASE,
"nmm:MPAARating:graph" INTEGER, "nmm:category" TEXT COLLATE NOCASE,
"nmm:category:graph" INTEGER, "nmm:producedBy" INTEGER,
"nmm:producedBy:graph" INTEGER, "nmm:hasSubtitle" INTEGER,
"nmm:hasSubtitle:graph" INTEGER, "nmm:isContentEncrypted" INTEGER,
"nmm:isContentEncrypted:graph" INTEGER, "mtp:fourCC" TEXT COLLATE
NOCASE, "mtp:fourCC:graph" INTEGER, "mtp:waveformat" TEXT COLLATE
NOCASE, "mtp:waveformat:graph" INTEGER);
CREATE TABLE "nmm:Video_mtp:scantype" (ID INTEGER NOT NULL,
"mtp:scantype" INTEGER NOT NULL, "mtp:scantype:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:director" (ID INTEGER NOT NULL,
"nmm:director" INTEGER NOT NULL, "nmm:director:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:leadActor" (ID INTEGER NOT NULL,
"nmm:leadActor" INTEGER NOT NULL, "nmm:leadActor:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:subtitle" (ID INTEGER NOT NULL,
"nmm:subtitle" INTEGER NOT NULL, "nmm:subtitle:graph" INTEGER);
CREATE TABLE "nmm:WhiteBalance" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Attachment" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Call" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:sentDate" INTEGER, "nmo:sentDate:graph" INTEGER,
"nmo:sentDate:localDate" INTEGER, "nmo:sentDate:localTime" INTEGER,
"nmo:duration" INTEGER, "nmo:duration:graph" INTEGER);
CREATE TABLE "nmo:CommunicationChannel" (ID INTEGER NOT NULL PRIMARY
KEY, "nmo:lastMessageDate" INTEGER, "nmo:lastMessageDate:graph"
INTEGER, "nmo:lastMessageDate:localDate" INTEGER,
"nmo:lastMessageDate:localTime" INTEGER,
"nmo:lastSuccessfulMessageDate" INTEGER,
"nmo:lastSuccessfulMessageDate:graph" INTEGER,
"nmo:lastSuccessfulMessageDate:localDate" INTEGER,
"nmo:lastSuccessfulMessageDate:localTime" INTEGER);
CREATE TABLE "nmo:CommunicationChannel_nmo:hasParticipant" (ID INTEGER
NOT NULL, "nmo:hasParticipant" INTEGER NOT NULL,
"nmo:hasParticipant:graph" INTEGER);
CREATE TABLE "nmo:Conversation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:DeliveryStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Email" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:hasContent" INTEGER, "nmo:hasContent:graph" INTEGER,
"nmo:isFlagged" INTEGER, "nmo:isFlagged:graph" INTEGER, "nmo:isRecent"

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INTEGER, "nmo:isRecent:graph" INTEGER, "nmo:status" TEXT COLLATE
NOCASE, "nmo:status:graph" INTEGER, "nmo:responseType" TEXT COLLATE
NOCASE, "nmo:responseType:graph" INTEGER);
CREATE TABLE "nmo:Email_nmo:contentMimeType" (ID INTEGER NOT NULL,
"nmo:contentMimeType" TEXT NOT NULL, "nmo:contentMimeType:graph"
INTEGER);
CREATE TABLE "nmo:IMMessage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:MMSMessage" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:mmsHasContent" INTEGER, "nmo:mmsHasContent:graph" INTEGER);
CREATE TABLE "nmo:MailAccount" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:accountName" TEXT COLLATE NOCASE, "nmo:accountName:graph"
INTEGER, "nmo:accountDisplayName" TEXT COLLATE NOCASE,
"nmo:accountDisplayName:graph" INTEGER, "nmo:fromAddress" INTEGER,
"nmo:fromAddress:graph" INTEGER, "nmo:signature" TEXT COLLATE NOCASE,
"nmo:signature:graph" INTEGER);
CREATE TABLE "nmo:MailFolder" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:folderName" TEXT COLLATE NOCASE, "nmo:folderName:graph" INTEGER,
"nmo:serverCount" INTEGER, "nmo:serverCount:graph" INTEGER,
"nmo:serverUnreadCount" INTEGER, "nmo:serverUnreadCount:graph"
INTEGER);
CREATE TABLE "nmo:MailboxDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Message" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:sentDate" INTEGER, "nmo:sentDate:graph" INTEGER,
"nmo:sentDate:localDate" INTEGER, "nmo:sentDate:localTime" INTEGER,
"nmo:from" INTEGER, "nmo:from:graph" INTEGER, "nmo:isAnswered"
INTEGER, "nmo:isAnswered:graph" INTEGER, "nmo:isDeleted" INTEGER,
"nmo:isDeleted:graph" INTEGER, "nmo:isDraft" INTEGER,
"nmo:isDraft:graph" INTEGER, "nmo:isRead" INTEGER, "nmo:isRead:graph"
INTEGER, "nmo:isSent" INTEGER, "nmo:isSent:graph" INTEGER,
"nmo:isEmergency" INTEGER, "nmo:isEmergency:graph" INTEGER,
"nmo:htmlMessageContent" TEXT COLLATE NOCASE,
"nmo:htmlMessageContent:graph" INTEGER, "nmo:messageId" TEXT COLLATE
NOCASE, "nmo:messageId:graph" INTEGER, "nmo:messageSubject" TEXT
COLLATE NOCASE, "nmo:messageSubject:graph" INTEGER,
"nmo:receivedDate" INTEGER, "nmo:receivedDate:graph" INTEGER,
"nmo:receivedDate:localDate" INTEGER, "nmo:receivedDate:localTime"
INTEGER, "nmo:replyTo" INTEGER, "nmo:replyTo:graph" INTEGER,
"nmo:sender" INTEGER, "nmo:sender:graph" INTEGER, "nmo:conversation"
INTEGER, "nmo:conversation:graph" INTEGER, "nmo:communicationChannel"
INTEGER, "nmo:communicationChannel:graph" INTEGER,
"nmo:deliveryStatus" INTEGER, "nmo:deliveryStatus:graph" INTEGER,
"nmo:reportDelivery" INTEGER, "nmo:reportDelivery:graph" INTEGER,
"nmo:sentWithReportRead" INTEGER, "nmo:sentWithReportRead:graph"
INTEGER, "nmo:reportReadStatus" INTEGER, "nmo:reportReadStatus:graph"
INTEGER, "nmo:mustAnswerReportRead" INTEGER,
"nmo:mustAnswerReportRead:graph" INTEGER, "nmo:mmsId" TEXT COLLATE
NOCASE, "nmo:mmsId:graph" INTEGER);
CREATE TABLE "nmo:MessageHeader" (ID INTEGER NOT NULL PRIMARY KEY,

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"nmo:headerName" TEXT COLLATE NOCASE, "nmo:headerName:graph" INTEGER,
"nmo:headerValue" TEXT COLLATE NOCASE, "nmo:headerValue:graph"
INTEGER);
CREATE TABLE "nmo:Message_nmo:bcc" (ID INTEGER NOT NULL, "nmo:bcc"
INTEGER NOT NULL, "nmo:bcc:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:cc" (ID INTEGER NOT NULL, "nmo:cc"
INTEGER NOT NULL, "nmo:cc:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:hasAttachment" (ID INTEGER NOT NULL,
"nmo:hasAttachment" INTEGER NOT NULL, "nmo:hasAttachment:graph"
INTEGER);
CREATE TABLE "nmo:Message_nmo:inReplyTo" (ID INTEGER NOT NULL,
"nmo:inReplyTo" INTEGER NOT NULL, "nmo:inReplyTo:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:messageHeader" (ID INTEGER NOT NULL,
"nmo:messageHeader" INTEGER NOT NULL, "nmo:messageHeader:graph"
INTEGER);
CREATE TABLE "nmo:Message_nmo:recipient" (ID INTEGER NOT NULL,
"nmo:recipient" INTEGER NOT NULL, "nmo:recipient:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:references" (ID INTEGER NOT NULL,
"nmo:references" INTEGER NOT NULL, "nmo:references:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:to" (ID INTEGER NOT NULL, "nmo:to"
INTEGER NOT NULL, "nmo:to:graph" INTEGER);
CREATE TABLE "nmo:MimePart" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:charSet" TEXT COLLATE NOCASE, "nmo:charSet:graph" INTEGER,
"nmo:contentId" TEXT COLLATE NOCASE, "nmo:contentId:graph" INTEGER,
"nmo:contentTransferEncoding" TEXT COLLATE NOCASE,
"nmo:contentTransferEncoding:graph" INTEGER, "nmo:contentDescription"
TEXT COLLATE NOCASE, "nmo:contentDescription:graph" INTEGER,
"nmo:contentDisposition" TEXT COLLATE NOCASE,
"nmo:contentDisposition:graph" INTEGER);
CREATE TABLE "nmo:MimePart_nmo:mimeHeader" (ID INTEGER NOT NULL,
"nmo:mimeHeader" INTEGER NOT NULL, "nmo:mimeHeader:graph" INTEGER);
CREATE TABLE "nmo:Multipart" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Multipart_nmo:partBoundary" (ID INTEGER NOT NULL,
"nmo:partBoundary" TEXT NOT NULL, "nmo:partBoundary:graph" INTEGER);
CREATE TABLE "nmo:PermanentChannel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:PhoneMessage" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:fromVCard" INTEGER, "nmo:fromVCard:graph" INTEGER, "nmo:encoding"
TEXT COLLATE NOCASE, "nmo:encoding:graph" INTEGER,
"nmo:phoneMessageId" INTEGER, "nmo:phoneMessageId:graph" INTEGER,
"nmo:validityPeriod" INTEGER, "nmo:validityPeriod:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder" (ID INTEGER NOT NULL PRIMARY
KEY, "nmo:phoneMessageFolderId" TEXT COLLATE NOCASE,
"nmo:phoneMessageFolderId:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder_nmo:containsPhoneMessage" (ID
INTEGER NOT NULL, "nmo:containsPhoneMessage" INTEGER NOT NULL,
"nmo:containsPhoneMessage:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder"
(ID INTEGER NOT NULL, "nmo:containsPhoneMessageFolder" INTEGER NOT

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NULL, "nmo:containsPhoneMessageFolder:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessage_nmo:toVCard" (ID INTEGER NOT NULL,
"nmo:toVCard" INTEGER NOT NULL, "nmo:toVCard:graph" INTEGER);
CREATE TABLE "nmo:ReportReadStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:SMSMessage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:TransientChannel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:VOIPCall" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nrl:InverseFunctionalProperty" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "osinfo:Installer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "poi:ObjectOfInterest" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "rdf:Property" (ID INTEGER NOT NULL PRIMARY KEY,
"rdfs:domain" INTEGER, "rdfs:domain:graph" INTEGER, "rdfs:range"
INTEGER, "rdfs:range:graph" INTEGER, "tracker:indexed" INTEGER,
"tracker:indexed:graph" INTEGER, "tracker:secondaryIndex" INTEGER,
"tracker:secondaryIndex:graph" INTEGER, "tracker:fulltextIndexed"
INTEGER, "tracker:fulltextIndexed:graph" INTEGER,
"tracker:fulltextNoLimit" INTEGER, "tracker:fulltextNoLimit:graph"
INTEGER, "tracker:transient" INTEGER, "tracker:transient:graph"
INTEGER, "tracker:weight" INTEGER, "tracker:weight:graph" INTEGER,
"tracker:defaultValue" TEXT COLLATE NOCASE,
"tracker:defaultValue:graph" INTEGER, "nrl:maxCardinality" INTEGER,
"nrl:maxCardinality:graph" INTEGER, "tracker:writeback" INTEGER,
"tracker:writeback:graph" INTEGER, "tracker:forceJournal" INTEGER,
"tracker:forceJournal:graph" INTEGER);
CREATE TABLE "rdf:Property_rdfs:subPropertyOf" (ID INTEGER NOT NULL,
"rdfs:subPropertyOf" INTEGER NOT NULL, "rdfs:subPropertyOf:graph"
INTEGER);
CREATE TABLE "rdfs:Class" (ID INTEGER NOT NULL PRIMARY KEY,
"tracker:notify" INTEGER, "tracker:notify:graph" INTEGER);
CREATE TABLE "rdfs:Class_rdfs:subClassOf" (ID INTEGER NOT NULL,
"rdfs:subClassOf" INTEGER NOT NULL, "rdfs:subClassOf:graph" INTEGER);
CREATE TABLE "rdfs:Class_tracker:domainIndex" (ID INTEGER NOT NULL,
"tracker:domainIndex" INTEGER NOT NULL, "tracker:domainIndex:graph"
INTEGER);
CREATE TABLE "rdfs:Literal" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "rdfs:Resource" (ID INTEGER NOT NULL PRIMARY KEY,
Available INTEGER NOT NULL, "rdfs:comment" TEXT COLLATE NOCASE,
"rdfs:comment:graph" INTEGER, "rdfs:label" TEXT COLLATE NOCASE,
"rdfs:label:graph" INTEGER, "tracker:added" INTEGER,
"tracker:added:graph" INTEGER, "tracker:added:localDate" INTEGER,
"tracker:added:localTime" INTEGER, "tracker:modified" INTEGER,
"tracker:modified:graph" INTEGER, "tracker:damaged" INTEGER,
"tracker:damaged:graph" INTEGER, "dc:title" TEXT COLLATE NOCASE,
"dc:title:graph" INTEGER, "dc:creator" TEXT COLLATE NOCASE,
"dc:creator:graph" INTEGER, "dc:subject" TEXT COLLATE NOCASE,
"dc:subject:graph" INTEGER, "dc:description" TEXT COLLATE NOCASE,
"dc:description:graph" INTEGER, "dc:publisher" TEXT COLLATE NOCASE,
"dc:publisher:graph" INTEGER, "dc:type" TEXT COLLATE NOCASE,

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"dc:type:graph" INTEGER, "dc:format" TEXT COLLATE NOCASE,
"dc:format:graph" INTEGER, "dc:identifier" TEXT COLLATE NOCASE,
"dc:identifier:graph" INTEGER, "dc:language" TEXT COLLATE NOCASE,
"dc:language:graph" INTEGER, "dc:coverage" TEXT COLLATE NOCASE,
"dc:coverage:graph" INTEGER, "dc:rights" TEXT COLLATE NOCASE,
"dc:rights:graph" INTEGER, "nao:identifier" TEXT COLLATE NOCASE,
"nao:identifier:graph" INTEGER, "nao:numericRating" REAL,
"nao:numericRating:graph" INTEGER, "nao:lastModified" INTEGER,
"nao:lastModified:graph" INTEGER, "nao:lastModified:localDate"
INTEGER, "nao:lastModified:localTime" INTEGER);
CREATE TABLE "rdfs:Resource_dc:contributor" (ID INTEGER NOT NULL,
"dc:contributor" TEXT NOT NULL, "dc:contributor:graph" INTEGER);
CREATE TABLE "rdfs:Resource_dc:date" (ID INTEGER NOT NULL, "dc:date"
INTEGER NOT NULL, "dc:date:graph" INTEGER, "dc:date:localDate" INTEGER
NOT NULL, "dc:date:localTime" INTEGER NOT NULL);
CREATE TABLE "rdfs:Resource_dc:relation" (ID INTEGER NOT NULL,
"dc:relation" TEXT NOT NULL, "dc:relation:graph" INTEGER);
CREATE TABLE "rdfs:Resource_dc:source" (ID INTEGER NOT NULL,
"dc:source" INTEGER NOT NULL, "dc:source:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:deprecated" (ID INTEGER NOT NULL,
"nao:deprecated" INTEGER NOT NULL, "nao:deprecated:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:hasTag" (ID INTEGER NOT NULL,
"nao:hasTag" INTEGER NOT NULL, "nao:hasTag:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:isRelated" (ID INTEGER NOT NULL,
"nao:isRelated" INTEGER NOT NULL, "nao:isRelated:graph" INTEGER);
CREATE TABLE "rdfs:Resource_rdf:type" (ID INTEGER NOT NULL, "rdf:type"
INTEGER NOT NULL, "rdf:type:graph" INTEGER);
CREATE TABLE "scal:AccessLevel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:AttendanceStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Attendee" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:attendanceStatus" INTEGER, "scal:attendanceStatus:graph"
INTEGER, "scal:attendeeRole" INTEGER, "scal:attendeeRole:graph"
INTEGER, "scal:attendeeContact" INTEGER, "scal:attendeeContact:graph"
INTEGER, "scal:rsvp" INTEGER, "scal:rsvp:graph" INTEGER,
"scal:calendarUserType" INTEGER, "scal:calendarUserType:graph"
INTEGER);
CREATE TABLE "scal:AttendeeRole" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Attendee_scal:delegated-from" (ID INTEGER NOT NULL,
"scal:delegated-from" INTEGER NOT NULL, "scal:delegated-from:graph"
INTEGER);
CREATE TABLE "scal:Attendee_scal:delegated-to" (ID INTEGER NOT NULL,
"scal:delegated-to" INTEGER NOT NULL, "scal:delegated-to:graph"
INTEGER);
CREATE TABLE "scal:Attendee_scal:member" (ID INTEGER NOT NULL,
"scal:member" INTEGER NOT NULL, "scal:member:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:sent-by" (ID INTEGER NOT NULL,
"scal:sent-by" INTEGER NOT NULL, "scal:sent-by:graph" INTEGER);
CREATE TABLE "scal:Calendar" (ID INTEGER NOT NULL PRIMARY KEY);

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CREATE TABLE "scal:CalendarAlarm" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:alarmOffset" INTEGER, "scal:alarmOffset:graph" INTEGER);
CREATE TABLE "scal:CalendarAlarm_scal:alarmAttendee" (ID INTEGER NOT
NULL, "scal:alarmAttendee" INTEGER NOT NULL,
"scal:alarmAttendee:graph" INTEGER);
CREATE TABLE "scal:CalendarItem" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:textLocation" INTEGER, "scal:textLocation:graph" INTEGER,
"scal:resources" TEXT COLLATE NOCASE, "scal:resources:graph" INTEGER,
"scal:transparency" INTEGER, "scal:transparency:graph" INTEGER,
"scal:calendarItemAlarm" INTEGER, "scal:calendarItemAlarm:graph"
INTEGER, "scal:start" INTEGER, "scal:start:graph" INTEGER, "scal:end"
INTEGER, "scal:end:graph" INTEGER, "scal:isAllDay" INTEGER,
"scal:isAllDay:graph" INTEGER, "scal:priority" INTEGER,
"scal:priority:graph" INTEGER, "scal:rdate" INTEGER,
"scal:rdate:graph" INTEGER, "scal:exceptionRDate" INTEGER,
"scal:exceptionRDate:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:access" (ID INTEGER NOT NULL,
"scal:access" INTEGER NOT NULL, "scal:access:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:attachment" (ID INTEGER NOT NULL,
"scal:attachment" INTEGER NOT NULL, "scal:attachment:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:attendee" (ID INTEGER NOT NULL,
"scal:attendee" INTEGER NOT NULL, "scal:attendee:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:belongsToCalendar" (ID INTEGER
NOT NULL, "scal:belongsToCalendar" INTEGER NOT NULL,
"scal:belongsToCalendar:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:contact" (ID INTEGER NOT NULL,
"scal:contact" INTEGER NOT NULL, "scal:contact:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:rrule" (ID INTEGER NOT NULL,
"scal:rrule" INTEGER NOT NULL, "scal:rrule:graph" INTEGER);
CREATE TABLE "scal:CalendarUserType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Event" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:eventStatus" INTEGER, "scal:eventStatus:graph" INTEGER);
CREATE TABLE "scal:EventStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Journal" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:journalStatus" INTEGER, "scal:journalStatus:graph" INTEGER);
CREATE TABLE "scal:JournalStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RSVPValues" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RecurrenceRule" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:recurrencePattern" TEXT COLLATE NOCASE,
"scal:recurrencePattern:graph" INTEGER, "scal:recurrenceStartDate"
INTEGER, "scal:recurrenceStartDate:graph" INTEGER, "scal:exception"
INTEGER, "scal:exception:graph" INTEGER);
CREATE TABLE "scal:TimePoint" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:dateTime" INTEGER, "scal:dateTime:graph" INTEGER,
"scal:dateTime:localDate" INTEGER, "scal:dateTime:localTime" INTEGER,
"scal:TimeZone" TEXT COLLATE NOCASE, "scal:TimeZone:graph" INTEGER);
CREATE TABLE "scal:Todo" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:todoStatus" INTEGER, "scal:todoStatus:graph" INTEGER, "scal:due"

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INTEGER, "scal:due:graph" INTEGER, "scal:completed" INTEGER,
"scal:completed:graph" INTEGER, "scal:percentComplete" INTEGER,
"scal:percentComplete:graph" INTEGER);
CREATE TABLE "scal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:TransparencyValues" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "slo:GeoLocation" (ID INTEGER NOT NULL PRIMARY KEY,
"slo:latitude" REAL, "slo:latitude:graph" INTEGER, "slo:longitude"
REAL, "slo:longitude:graph" INTEGER, "slo:verticalAccuracy" REAL,
"slo:verticalAccuracy:graph" INTEGER, "slo:horizontalAccuracy" REAL,
"slo:horizontalAccuracy:graph" INTEGER, "slo:altitude" REAL,
"slo:altitude:graph" INTEGER, "slo:boundingLatitudeMin" REAL,
"slo:boundingLatitudeMin:graph" INTEGER, "slo:boundingLatitudeMax"
REAL, "slo:boundingLatitudeMax:graph" INTEGER,
"slo:boundingLongitudeMin" REAL, "slo:boundingLongitudeMin:graph"
INTEGER, "slo:boundingLongitudeMax" REAL,
"slo:boundingLongitudeMax:graph" INTEGER, "slo:radius" REAL,
"slo:radius:graph" INTEGER, "slo:timestamp" INTEGER,
"slo:timestamp:graph" INTEGER, "slo:timestamp:localDate" INTEGER,
"slo:timestamp:localTime" INTEGER, "slo:postalAddress" INTEGER,
"slo:postalAddress:graph" INTEGER);
CREATE TABLE "slo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY,
"slo:iconUrl" INTEGER, "slo:iconUrl:graph" INTEGER);
CREATE TABLE "slo:LandmarkCategory" (ID INTEGER NOT NULL PRIMARY KEY,
"slo:isRemovable" INTEGER, "slo:isRemovable:graph" INTEGER,
"slo:categoryIconUrl" INTEGER, "slo:categoryIconUrl:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:belongsToCategory" (ID INTEGER NOT
NULL, "slo:belongsToCategory" INTEGER NOT NULL,
"slo:belongsToCategory:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:hasContact" (ID INTEGER NOT NULL,
"slo:hasContact" INTEGER NOT NULL, "slo:hasContact:graph" INTEGER);
CREATE TABLE "slo:Route" (ID INTEGER NOT NULL PRIMARY KEY,
"slo:startTime" INTEGER, "slo:startTime:graph" INTEGER,
"slo:startTime:localDate" INTEGER, "slo:startTime:localTime" INTEGER,
"slo:endTime" INTEGER, "slo:endTime:graph" INTEGER,
"slo:endTime:localDate" INTEGER, "slo:endTime:localTime" INTEGER);
CREATE TABLE "slo:Route_slo:routeDetails" (ID INTEGER NOT NULL,
"slo:routeDetails" TEXT NOT NULL, "slo:routeDetails:graph" INTEGER);
CREATE TABLE "tracker:Namespace" (ID INTEGER NOT NULL PRIMARY KEY,
"tracker:prefix" TEXT COLLATE NOCASE, "tracker:prefix:graph"
INTEGER);
CREATE TABLE "tracker:Ontology" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "tracker:Volume" (ID INTEGER NOT NULL PRIMARY KEY,
"tracker:isMounted" INTEGER, "tracker:isMounted:graph" INTEGER,
"tracker:unmountDate" INTEGER, "tracker:unmountDate:graph" INTEGER,
"tracker:unmountDate:localDate" INTEGER,
"tracker:unmountDate:localTime" INTEGER, "tracker:mountPoint" INTEGER,
"tracker:mountPoint:graph" INTEGER, "tracker:isRemovable" INTEGER,
"tracker:isRemovable:graph" INTEGER, "tracker:isOptical" INTEGER,

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"tracker:isOptical:graph" INTEGER);
CREATE UNIQUE INDEX "mfo:FeedMessage_mfo:enclosureList_ID_ID" ON
"mfo:FeedMessage_mfo:enclosureList" (ID, "mfo:enclosureList");
CREATE UNIQUE INDEX "mlo:GeoBoundingBox_mlo:bbNorthWest_ID_ID" ON
"mlo:GeoBoundingBox_mlo:bbNorthWest" (ID, "mlo:bbNorthWest");
CREATE UNIQUE INDEX "mlo:GeoBoundingBox_mlo:bbSouthEast_ID_ID" ON
"mlo:GeoBoundingBox_mlo:bbSouthEast" (ID, "mlo:bbSouthEast");
CREATE INDEX "mlo:GeoLocation_mlo:asBoundingBox_ID" ON
"mlo:GeoLocation_mlo:asBoundingBox" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asBoundingBox_ID_ID" ON
"mlo:GeoLocation_mlo:asBoundingBox" ("mlo:asBoundingBox", ID);
CREATE INDEX "mlo:GeoLocation_mlo:asGeoPoint_ID" ON
"mlo:GeoLocation_mlo:asGeoPoint" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asGeoPoint_ID_ID" ON
"mlo:GeoLocation_mlo:asGeoPoint" ("mlo:asGeoPoint", ID);
CREATE INDEX "mlo:GeoLocation_mlo:asPostalAddress_ID" ON
"mlo:GeoLocation_mlo:asPostalAddress" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asPostalAddress_ID_ID" ON
"mlo:GeoLocation_mlo:asPostalAddress" ("mlo:asPostalAddress", ID);
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:address_ID_ID" ON
"mlo:GeoPoint_mlo:address" (ID, "mlo:address");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:altitude_ID_ID" ON
"mlo:GeoPoint_mlo:altitude" (ID, "mlo:altitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:city_ID_ID" ON
"mlo:GeoPoint_mlo:city" (ID, "mlo:city");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:country_ID_ID" ON
"mlo:GeoPoint_mlo:country" (ID, "mlo:country");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:latitude_ID_ID" ON
"mlo:GeoPoint_mlo:latitude" (ID, "mlo:latitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:longitude_ID_ID" ON
"mlo:GeoPoint_mlo:longitude" (ID, "mlo:longitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:state_ID_ID" ON
"mlo:GeoPoint_mlo:state" (ID, "mlo:state");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:timestamp_ID_ID" ON
"mlo:GeoPoint_mlo:timestamp" (ID, "mlo:timestamp");
CREATE UNIQUE INDEX "mlo:GeoSphere_mlo:radius_ID_ID" ON
"mlo:GeoSphere_mlo:radius" (ID, "mlo:radius");
CREATE UNIQUE INDEX "mlo:LandmarkCategory_mlo:isRemovable_ID_ID" ON
"mlo:LandmarkCategory_mlo:isRemovable" (ID, "mlo:isRemovable");
CREATE UNIQUE INDEX "mlo:Landmark_mlo:belongsToCategory_ID_ID" ON
"mlo:Landmark_mlo:belongsToCategory" (ID, "mlo:belongsToCategory");
CREATE UNIQUE INDEX "mlo:Landmark_mlo:poiLocation_ID_ID" ON
"mlo:Landmark_mlo:poiLocation" (ID, "mlo:poiLocation");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxEastLimit_ID_ID"
ON "mlo:LocationBoundingBox_mlo:boxEastLimit" (ID,
"mlo:boxEastLimit");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxNorthLimit_ID_ID"
ON "mlo:LocationBoundingBox_mlo:boxNorthLimit" (ID,

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"mlo:boxNorthLimit");
CREATE UNIQUE INDEX
"mlo:LocationBoundingBox_mlo:boxSouthWestCorner_ID_ID" ON
"mlo:LocationBoundingBox_mlo:boxSouthWestCorner" (ID,
"mlo:boxSouthWestCorner");
CREATE UNIQUE INDEX
"mlo:LocationBoundingBox_mlo:boxVerticalLimit_ID_ID" ON
"mlo:LocationBoundingBox_mlo:boxVerticalLimit" (ID,
"mlo:boxVerticalLimit");
CREATE UNIQUE INDEX "mlo:Route_mlo:endTime_ID_ID" ON
"mlo:Route_mlo:endTime" (ID, "mlo:endTime");
CREATE UNIQUE INDEX "mlo:Route_mlo:routeDetails_ID_ID" ON
"mlo:Route_mlo:routeDetails" (ID, "mlo:routeDetails");
CREATE UNIQUE INDEX "mlo:Route_mlo:startTime_ID_ID" ON
"mlo:Route_mlo:startTime" (ID, "mlo:startTime");
CREATE UNIQUE INDEX "mto:Transfer_mto:transferList_ID_ID" ON
"mto:Transfer_mto:transferList" (ID, "mto:transferList");
CREATE UNIQUE INDEX "mto:Transfer_mto:transferPrivacyLevel_ID_ID" ON
"mto:Transfer_mto:transferPrivacyLevel" (ID,
"mto:transferPrivacyLevel");
CREATE UNIQUE INDEX "mto:UploadTransfer_mto:transferCategory_ID_ID" ON
"mto:UploadTransfer_mto:transferCategory" (ID,
"mto:transferCategory");
CREATE UNIQUE INDEX "nao:Tag_tracker:isDefaultTag_ID_ID" ON
"nao:Tag_tracker:isDefaultTag" (ID, "tracker:isDefaultTag");
CREATE UNIQUE INDEX "nao:Tag_tracker:tagRelatedTo_ID_ID" ON
"nao:Tag_tracker:tagRelatedTo" (ID, "tracker:tagRelatedTo");
CREATE UNIQUE INDEX "ncal:Alarm_ncal:action_ID_ID" ON
"ncal:Alarm_ncal:action" (ID, "ncal:action");
CREATE UNIQUE INDEX "ncal:BydayRulePart_ncal:bydayModifier_ID_ID" ON
"ncal:BydayRulePart_ncal:bydayModifier" (ID, "ncal:bydayModifier");
CREATE UNIQUE INDEX "ncal:BydayRulePart_ncal:bydayWeekday_ID_ID" ON
"ncal:BydayRulePart_ncal:bydayWeekday" (ID, "ncal:bydayWeekday");
CREATE UNIQUE INDEX "ncal:Calendar_ncal:component_ID_ID" ON
"ncal:Calendar_ncal:component" (ID, "ncal:component");
CREATE UNIQUE INDEX "ncal:Freebusy_ncal:freebusy_ID_ID" ON
"ncal:Freebusy_ncal:freebusy" (ID, "ncal:freebusy");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byday_ID_ID" ON
"ncal:RecurrenceRule_ncal:byday" (ID, "ncal:byday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byhour_ID_ID" ON
"ncal:RecurrenceRule_ncal:byhour" (ID, "ncal:byhour");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byminute_ID_ID" ON
"ncal:RecurrenceRule_ncal:byminute" (ID, "ncal:byminute");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonth_ID_ID" ON
"ncal:RecurrenceRule_ncal:bymonth" (ID, "ncal:bymonth");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonthday_ID_ID" ON
"ncal:RecurrenceRule_ncal:bymonthday" (ID, "ncal:bymonthday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysecond_ID_ID" ON

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"ncal:RecurrenceRule_ncal:bysecond" (ID, "ncal:bysecond");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysetpos_ID_ID" ON
"ncal:RecurrenceRule_ncal:bysetpos" (ID, "ncal:bysetpos");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byweekno_ID_ID" ON
"ncal:RecurrenceRule_ncal:byweekno" (ID, "ncal:byweekno");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byyearday_ID_ID" ON
"ncal:RecurrenceRule_ncal:byyearday" (ID, "ncal:byyearday");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attach_ID_ID" ON
"ncal:UnionParentClass_ncal:attach" (ID, "ncal:attach");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attendee_ID_ID" ON
"ncal:UnionParentClass_ncal:attendee" (ID, "ncal:attendee");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:categories_ID_ID" ON
"ncal:UnionParentClass_ncal:categories" (ID, "ncal:categories");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exdate_ID_ID" ON
"ncal:UnionParentClass_ncal:exdate" (ID, "ncal:exdate");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exrule_ID_ID" ON
"ncal:UnionParentClass_ncal:exrule" (ID, "ncal:exrule");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:hasAlarm_ID_ID" ON
"ncal:UnionParentClass_ncal:hasAlarm" (ID, "ncal:hasAlarm");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:ncalRelation_ID_ID" ON
"ncal:UnionParentClass_ncal:ncalRelation" (ID, "ncal:ncalRelation");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:rdate_ID_ID" ON
"ncal:UnionParentClass_ncal:rdate" (ID, "ncal:rdate");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToChild_ID_ID"
ON "ncal:UnionParentClass_ncal:relatedToChild" (ID,
"ncal:relatedToChild");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToParent_ID_ID"
ON "ncal:UnionParentClass_ncal:relatedToParent" (ID,
"ncal:relatedToParent");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:resources_ID_ID" ON
"ncal:UnionParentClass_ncal:resources" (ID, "ncal:resources");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:rrule_ID_ID" ON
"ncal:UnionParentClass_ncal:rrule" (ID, "ncal:rrule");
CREATE UNIQUE INDEX "nco:Affiliation_nco:title_ID_ID" ON
"nco:Affiliation_nco:title" (ID, "nco:title");
CREATE UNIQUE INDEX "nco:ContactList_nco:containsContact_ID_ID" ON
"nco:ContactList_nco:containsContact" (ID, "nco:containsContact");
CREATE UNIQUE INDEX "nco:Contact_ncal:anniversary_ID_ID" ON
"nco:Contact_ncal:anniversary" (ID, "ncal:anniversary");
CREATE UNIQUE INDEX "nco:Contact_ncal:birthday_ID_ID" ON
"nco:Contact_ncal:birthday" (ID, "ncal:birthday");
CREATE UNIQUE INDEX "nco:Contact_nco:belongsToGroup_ID_ID" ON
"nco:Contact_nco:belongsToGroup" (ID, "nco:belongsToGroup");
CREATE UNIQUE INDEX "nco:Contact_nco:note_ID_ID" ON
"nco:Contact_nco:note" (ID, "nco:note");
CREATE UNIQUE INDEX "nco:Contact_scal:anniversary_ID_ID" ON
"nco:Contact_scal:anniversary" (ID, "scal:anniversary");
CREATE UNIQUE INDEX "nco:Contact_scal:birthday_ID_ID" ON

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"nco:Contact_scal:birthday" (ID, "scal:birthday");
CREATE UNIQUE INDEX "nco:IMAccount_nco:hasIMContact_ID_ID" ON
"nco:IMAccount_nco:hasIMContact" (ID, "nco:hasIMContact");
CREATE UNIQUE INDEX "nco:IMAddress_nco:imCapability_ID_ID" ON
"nco:IMAddress_nco:imCapability" (ID, "nco:imCapability");
CREATE UNIQUE INDEX "nco:PersonContact_nco:hasAffiliation_ID_ID" ON
"nco:PersonContact_nco:hasAffiliation" (ID, "nco:hasAffiliation");
CREATE INDEX "nco:PersonContact_nco:nameFamily" ON "nco:PersonContact"
("nco:nameFamily");
CREATE INDEX "nco:PhoneNumber_nco:phoneNumber" ON "nco:PhoneNumber"
("nco:phoneNumber");
CREATE UNIQUE INDEX "nco:Role_nco:blogUrl_ID_ID" ON
"nco:Role_nco:blogUrl" (ID, "nco:blogUrl");
CREATE UNIQUE INDEX "nco:Role_nco:foafUrl_ID_ID" ON
"nco:Role_nco:foafUrl" (ID, "nco:foafUrl");
CREATE UNIQUE INDEX "nco:Role_nco:hasContactMedium_ID_ID" ON
"nco:Role_nco:hasContactMedium" (ID, "nco:hasContactMedium");
CREATE INDEX "nco:Role_nco:hasEmailAddress_ID" ON
"nco:Role_nco:hasEmailAddress" (ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasEmailAddress_ID_ID" ON
"nco:Role_nco:hasEmailAddress" ("nco:hasEmailAddress", ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasIMAddress_ID_ID" ON
"nco:Role_nco:hasIMAddress" (ID, "nco:hasIMAddress");
CREATE UNIQUE INDEX "nco:Role_nco:hasPhoneNumber_ID_ID" ON
"nco:Role_nco:hasPhoneNumber" (ID, "nco:hasPhoneNumber");
CREATE INDEX "nco:Role_nco:hasPostalAddress_ID" ON
"nco:Role_nco:hasPostalAddress" (ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasPostalAddress_ID_ID" ON
"nco:Role_nco:hasPostalAddress" ("nco:hasPostalAddress", ID);
CREATE UNIQUE INDEX "nco:Role_nco:url_ID_ID" ON "nco:Role_nco:url"
(ID, "nco:url");
CREATE UNIQUE INDEX "nco:Role_nco:websiteUrl_ID_ID" ON
"nco:Role_nco:websiteUrl" (ID, "nco:websiteUrl");
CREATE UNIQUE INDEX
"nfo:BookmarkFolder_nfo:containsBookmarkFolder_ID_ID" ON
"nfo:BookmarkFolder_nfo:containsBookmarkFolder" (ID,
"nfo:containsBookmarkFolder");
CREATE UNIQUE INDEX "nfo:BookmarkFolder_nfo:containsBookmark_ID_ID" ON
"nfo:BookmarkFolder_nfo:containsBookmark" (ID,
"nfo:containsBookmark");
CREATE INDEX "nfo:FileDataObject_nfo:fileLastModified" ON
"nfo:FileDataObject" ("nfo:fileLastModified");
CREATE UNIQUE INDEX "nfo:Image_nfo:depicts_ID_ID" ON
"nfo:Image_nfo:depicts" (ID, "nfo:depicts");
CREATE UNIQUE INDEX "nfo:Image_nfo:hasRegionOfInterest_ID_ID" ON
"nfo:Image_nfo:hasRegionOfInterest" (ID, "nfo:hasRegionOfInterest");
CREATE UNIQUE INDEX "nfo:MediaList_nfo:hasMediaFileListEntry_ID_ID" ON
"nfo:MediaList_nfo:hasMediaFileListEntry" (ID,

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"nfo:hasMediaFileListEntry");
CREATE UNIQUE INDEX "nfo:MediaList_nfo:mediaListEntry_ID_ID" ON
"nfo:MediaList_nfo:mediaListEntry" (ID, "nfo:mediaListEntry");
CREATE UNIQUE INDEX "nfo:Media_mtp:hidden_ID_ID" ON
"nfo:Media_mtp:hidden" (ID, "mtp:hidden");
CREATE UNIQUE INDEX "nfo:Media_nmm:alternativeMedia_ID_ID" ON
"nfo:Media_nmm:alternativeMedia" (ID, "nmm:alternativeMedia");
CREATE INDEX "nfo:Visual_nie:contentCreated" ON "nfo:Visual"
("nie:contentCreated");
CREATE UNIQUE INDEX "nid3:ID3Audio_nid3:leadArtist_ID_ID" ON
"nid3:ID3Audio_nid3:leadArtist" (ID, "nid3:leadArtist");
CREATE UNIQUE INDEX "nie:DataObject_nie:dataSource_ID_ID" ON
"nie:DataObject_nie:dataSource" (ID, "nie:dataSource");
CREATE UNIQUE INDEX "nie:DataObject_nie:isPartOf_ID_ID" ON
"nie:DataObject_nie:isPartOf" (ID, "nie:isPartOf");
CREATE INDEX "nie:DataObject_nie:url" ON "nie:DataObject" ("nie:url");
CREATE INDEX "nie:InformationElement_mlo:location_ID" ON
"nie:InformationElement_mlo:location" (ID);
CREATE UNIQUE INDEX "nie:InformationElement_mlo:location_ID_ID" ON
"nie:InformationElement_mlo:location" ("mlo:location", ID);
CREATE UNIQUE INDEX "nie:InformationElement_nao:hasProperty_ID_ID" ON
"nie:InformationElement_nao:hasProperty" (ID, "nao:hasProperty");
CREATE UNIQUE INDEX "nie:InformationElement_nco:contributor_ID_ID" ON
"nie:InformationElement_nco:contributor" (ID, "nco:contributor");
CREATE UNIQUE INDEX "nie:InformationElement_nco:creator_ID_ID" ON
"nie:InformationElement_nco:creator" (ID, "nco:creator");
CREATE UNIQUE INDEX "nie:InformationElement_nie:hasLogicalPart_ID_ID"
ON "nie:InformationElement_nie:hasLogicalPart" (ID,
"nie:hasLogicalPart");
CREATE UNIQUE INDEX "nie:InformationElement_nie:hasPart_ID_ID" ON
"nie:InformationElement_nie:hasPart" (ID, "nie:hasPart");
CREATE UNIQUE INDEX
"nie:InformationElement_nie:informationElementDate_ID_ID" ON
"nie:InformationElement_nie:informationElementDate" (ID,
"nie:informationElementDate");
CREATE UNIQUE INDEX "nie:InformationElement_nie:isLogicalPartOf_ID_ID"
ON "nie:InformationElement_nie:isLogicalPartOf" (ID,
"nie:isLogicalPartOf");
CREATE UNIQUE INDEX "nie:InformationElement_nie:keyword_ID_ID" ON
"nie:InformationElement_nie:keyword" (ID, "nie:keyword");
CREATE UNIQUE INDEX "nie:InformationElement_nie:relatedTo_ID_ID" ON
"nie:InformationElement_nie:relatedTo" (ID, "nie:relatedTo");
CREATE INDEX "nie:InformationElement_slo:location" ON
"nie:InformationElement" ("slo:location");
CREATE INDEX "nmm:Artist_nmm:artistName" ON "nmm:Artist" ("nmm:artistName");
CREATE INDEX "nmm:MusicAlbum_nie:title" ON "nmm:MusicAlbum" ("nie:title");
CREATE UNIQUE INDEX "nmm:MusicAlbum_nmm:albumArtist_ID_ID" ON
"nmm:MusicAlbum_nmm:albumArtist" (ID, "nmm:albumArtist");

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CREATE INDEX "nmm:MusicPiece_nie:title" ON "nmm:MusicPiece" ("nie:title");
CREATE UNIQUE INDEX "nmm:MusicPiece_nmm:lyrics_ID_ID" ON
"nmm:MusicPiece_nmm:lyrics" (ID, "nmm:lyrics");
CREATE INDEX "nmm:MusicPiece_nmm:musicAlbum" ON "nmm:MusicPiece"
("nmm:musicAlbum");
CREATE INDEX "nmm:MusicPiece_nmm:performer" ON "nmm:MusicPiece"
("nmm:performer");
CREATE UNIQUE INDEX "nmm:RadioStation_nmm:carrier_ID_ID" ON
"nmm:RadioStation_nmm:carrier" (ID, "nmm:carrier");
CREATE UNIQUE INDEX "nmm:Video_mtp:scantype_ID_ID" ON
"nmm:Video_mtp:scantype" (ID, "mtp:scantype");
CREATE UNIQUE INDEX "nmm:Video_nmm:director_ID_ID" ON
"nmm:Video_nmm:director" (ID, "nmm:director");
CREATE UNIQUE INDEX "nmm:Video_nmm:leadActor_ID_ID" ON
"nmm:Video_nmm:leadActor" (ID, "nmm:leadActor");
CREATE UNIQUE INDEX "nmm:Video_nmm:subtitle_ID_ID" ON
"nmm:Video_nmm:subtitle" (ID, "nmm:subtitle");
CREATE INDEX "nmo:Call_nmo:sentDate" ON "nmo:Call" ("nmo:sentDate");
CREATE INDEX "nmo:CommunicationChannel_nmo:hasParticipant_ID" ON
"nmo:CommunicationChannel_nmo:hasParticipant" (ID);
CREATE UNIQUE INDEX
"nmo:CommunicationChannel_nmo:hasParticipant_ID_ID" ON
"nmo:CommunicationChannel_nmo:hasParticipant" ("nmo:hasParticipant",
ID);
CREATE INDEX "nmo:CommunicationChannel_nmo:lastMessageDate" ON
"nmo:CommunicationChannel" ("nmo:lastMessageDate");
CREATE UNIQUE INDEX "nmo:Email_nmo:contentMimeType_ID_ID" ON
"nmo:Email_nmo:contentMimeType" (ID, "nmo:contentMimeType");
CREATE UNIQUE INDEX "nmo:Message_nmo:bcc_ID_ID" ON
"nmo:Message_nmo:bcc" (ID, "nmo:bcc");
CREATE UNIQUE INDEX "nmo:Message_nmo:cc_ID_ID" ON "nmo:Message_nmo:cc"
(ID, "nmo:cc");
CREATE INDEX "nmo:Message_nmo:communicationChannel" ON "nmo:Message"
("nmo:communicationChannel", "nmo:receivedDate");
CREATE INDEX "nmo:Message_nmo:conversation" ON "nmo:Message"
("nmo:conversation");
CREATE INDEX "nmo:Message_nmo:from" ON "nmo:Message" ("nmo:from");
CREATE UNIQUE INDEX "nmo:Message_nmo:hasAttachment_ID_ID" ON
"nmo:Message_nmo:hasAttachment" (ID, "nmo:hasAttachment");
CREATE UNIQUE INDEX "nmo:Message_nmo:inReplyTo_ID_ID" ON
"nmo:Message_nmo:inReplyTo" (ID, "nmo:inReplyTo");
CREATE UNIQUE INDEX "nmo:Message_nmo:messageHeader_ID_ID" ON
"nmo:Message_nmo:messageHeader" (ID, "nmo:messageHeader");
CREATE UNIQUE INDEX "nmo:Message_nmo:recipient_ID_ID" ON
"nmo:Message_nmo:recipient" (ID, "nmo:recipient");
CREATE UNIQUE INDEX "nmo:Message_nmo:references_ID_ID" ON
"nmo:Message_nmo:references" (ID, "nmo:references");
CREATE INDEX "nmo:Message_nmo:sender" ON "nmo:Message" ("nmo:sender");

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CREATE INDEX "nmo:Message_nmo:sentDate" ON "nmo:Message" ("nmo:sentDate");
CREATE INDEX "nmo:Message_nmo:to_ID" ON "nmo:Message_nmo:to" (ID);
CREATE UNIQUE INDEX "nmo:Message_nmo:to_ID_ID" ON "nmo:Message_nmo:to"
("nmo:to", ID);
CREATE UNIQUE INDEX "nmo:MimePart_nmo:mimeHeader_ID_ID" ON
"nmo:MimePart_nmo:mimeHeader" (ID, "nmo:mimeHeader");
CREATE UNIQUE INDEX "nmo:Multipart_nmo:partBoundary_ID_ID" ON
"nmo:Multipart_nmo:partBoundary" (ID, "nmo:partBoundary");
CREATE UNIQUE INDEX
"nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder_ID_ID" ON
"nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder" (ID,
"nmo:containsPhoneMessageFolder");
CREATE UNIQUE INDEX
"nmo:PhoneMessageFolder_nmo:containsPhoneMessage_ID_ID" ON
"nmo:PhoneMessageFolder_nmo:containsPhoneMessage" (ID,
"nmo:containsPhoneMessage");
CREATE UNIQUE INDEX "nmo:PhoneMessage_nmo:toVCard_ID_ID" ON
"nmo:PhoneMessage_nmo:toVCard" (ID, "nmo:toVCard");
CREATE UNIQUE INDEX "rdf:Property_rdfs:subPropertyOf_ID_ID" ON
"rdf:Property_rdfs:subPropertyOf" (ID, "rdfs:subPropertyOf");
CREATE UNIQUE INDEX "rdfs:Class_rdfs:subClassOf_ID_ID" ON
"rdfs:Class_rdfs:subClassOf" (ID, "rdfs:subClassOf");
CREATE UNIQUE INDEX "rdfs:Class_tracker:domainIndex_ID_ID" ON
"rdfs:Class_tracker:domainIndex" (ID, "tracker:domainIndex");
CREATE UNIQUE INDEX "rdfs:Resource_dc:contributor_ID_ID" ON
"rdfs:Resource_dc:contributor" (ID, "dc:contributor");
CREATE UNIQUE INDEX "rdfs:Resource_dc:date_ID_ID" ON
"rdfs:Resource_dc:date" (ID, "dc:date");
CREATE UNIQUE INDEX "rdfs:Resource_dc:relation_ID_ID" ON
"rdfs:Resource_dc:relation" (ID, "dc:relation");
CREATE UNIQUE INDEX "rdfs:Resource_dc:source_ID_ID" ON
"rdfs:Resource_dc:source" (ID, "dc:source");
CREATE UNIQUE INDEX "rdfs:Resource_nao:deprecated_ID_ID" ON
"rdfs:Resource_nao:deprecated" (ID, "nao:deprecated");
CREATE INDEX "rdfs:Resource_nao:hasTag_ID" ON "rdfs:Resource_nao:hasTag" (ID);
CREATE UNIQUE INDEX "rdfs:Resource_nao:hasTag_ID_ID" ON
"rdfs:Resource_nao:hasTag" ("nao:hasTag", ID);
CREATE UNIQUE INDEX "rdfs:Resource_nao:isRelated_ID_ID" ON
"rdfs:Resource_nao:isRelated" (ID, "nao:isRelated");
CREATE UNIQUE INDEX "rdfs:Resource_rdf:type_ID_ID" ON
"rdfs:Resource_rdf:type" (ID, "rdf:type");
CREATE INDEX "rdfs:Resource_tracker:added" ON "rdfs:Resource" ("tracker:added");
CREATE UNIQUE INDEX "scal:Attendee_scal:delegated-from_ID_ID" ON
"scal:Attendee_scal:delegated-from" (ID, "scal:delegated-from");
CREATE UNIQUE INDEX "scal:Attendee_scal:delegated-to_ID_ID" ON
"scal:Attendee_scal:delegated-to" (ID, "scal:delegated-to");
CREATE UNIQUE INDEX "scal:Attendee_scal:member_ID_ID" ON
"scal:Attendee_scal:member" (ID, "scal:member");

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CREATE UNIQUE INDEX "scal:Attendee_scal:sent-by_ID_ID" ON
"scal:Attendee_scal:sent-by" (ID, "scal:sent-by");
CREATE UNIQUE INDEX "scal:CalendarAlarm_scal:alarmAttendee_ID_ID" ON
"scal:CalendarAlarm_scal:alarmAttendee" (ID, "scal:alarmAttendee");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:access_ID_ID" ON
"scal:CalendarItem_scal:access" (ID, "scal:access");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:attachment_ID_ID" ON
"scal:CalendarItem_scal:attachment" (ID, "scal:attachment");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:attendee_ID_ID" ON
"scal:CalendarItem_scal:attendee" (ID, "scal:attendee");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:belongsToCalendar_ID_ID"
ON "scal:CalendarItem_scal:belongsToCalendar" (ID,
"scal:belongsToCalendar");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:contact_ID_ID" ON
"scal:CalendarItem_scal:contact" (ID, "scal:contact");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:rrule_ID_ID" ON
"scal:CalendarItem_scal:rrule" (ID, "scal:rrule");
CREATE INDEX "slo:GeoLocation_slo:postalAddress" ON "slo:GeoLocation"
("slo:postalAddress");
CREATE UNIQUE INDEX "slo:Landmark_slo:belongsToCategory_ID_ID" ON
"slo:Landmark_slo:belongsToCategory" (ID, "slo:belongsToCategory");
CREATE UNIQUE INDEX "slo:Landmark_slo:hasContact_ID_ID" ON
"slo:Landmark_slo:hasContact" (ID, "slo:hasContact");
CREATE UNIQUE INDEX "slo:Route_slo:routeDetails_ID_ID" ON
"slo:Route_slo:routeDetails" (ID, "slo:routeDetails");

EXPLAIN SELECT "1_u", (SELECT "nco:fullname" FROM "nco:Contact" WHERE
ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameFamily" FROM
"nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT
"nco:nameGiven" FROM "nco:PersonContact" WHERE ID = "1_u")
COLLATE NOCASE, (SELECT "nco:nameAdditional" FROM
"nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT
"nco:nameHonorificPrefix" FROM "nco:PersonContact" WHERE ID =
"1_u") COLLATE NOCASE, (SELECT "nco:nameHonorificSuffix" FROM
"nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT
"nco:nickname" FROM "nco:Contact" WHERE ID = "1_u") COLLATE
NOCASE, strftime("%s",(SELECT "nco:birthDate" FROM
"nco:Contact" WHERE ID = "1_u")), (SELECT "nie:url" FROM
"nie:DataObject" WHERE ID = (SELECT "nco:photo" FROM
"nco:Contact" WHERE ID = "1_u")) COLLATE NOCASE, (SELECT
GROUP_CONCAT("2_u"||? COLLATE NOCASE||COALESCE((SELECT
"nco:imProtocol" FROM "nco:IMAddress" WHERE ID = "3_u") COLLATE
NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT
"nco:imID" FROM "nco:IMAddress" WHERE ID = "3_u") COLLATE
NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT
"nco:imNickname" FROM "nco:IMAddress" WHERE ID = "3_u") COLLATE
NOCASE, ? COLLATE NOCASE), '\n') FROM (SELECT
"nco:PersonContact_nco:hasAffiliation2"."nco:hasAffiliation" AS

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"2_u", "nco:Role_nco:hasIMAddress3"."nco:hasIMAddress" AS
"3_u" FROM "nco:PersonContact_nco:hasAffiliation" AS
"nco:PersonContact_nco:hasAffiliation2",
"nco:Role_nco:hasIMAddress" AS "nco:Role_nco:hasIMAddress3" WHERE
"1_u" = "nco:PersonContact_nco:hasAffiliation2"."ID" AND
"nco:PersonContact_nco:hasAffiliation2"."nco:hasAffiliation" =
"nco:Role_nco:hasIMAddress3"."ID"), (SELECT
GROUP_CONCAT("2_u"||? COLLATE NOCASE||(SELECT "nco:phoneNumber"
FROM "nco:PhoneNumber" WHERE ID = "4_u") COLLATE NOCASE, '\n')
FROM (SELECT "nco:PersonContact_nco:hasAffiliation4"."nco:hasAffiliation"
AS "2_u", "nco:Role_nco:hasPhoneNumber5"."nco:hasPhoneNumber" AS
"4_u" FROM "nco:PersonContact_nco:hasAffiliation" AS
"nco:PersonContact_nco:hasAffiliation4",
"nco:Role_nco:hasPhoneNumber" AS "nco:Role_nco:hasPhoneNumber5"
WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation4"."ID" AND
"nco:PersonContact_nco:hasAffiliation4"."nco:hasAffiliation" =
"nco:Role_nco:hasPhoneNumber5"."ID"), (SELECT
GROUP_CONCAT("2_u"||? COLLATE NOCASE||(SELECT "nco:emailAddress"
FROM "nco:EmailAddress" WHERE ID = "5_u") COLLATE NOCASE, ',')
FROM (SELECT "nco:PersonContact_nco:hasAffiliation6"."nco:hasAffiliation"
AS "2_u", "nco:Role_nco:hasEmailAddress7"."nco:hasEmailAddress"
AS "5_u" FROM "nco:PersonContact_nco:hasAffiliation" AS
"nco:PersonContact_nco:hasAffiliation6",
"nco:Role_nco:hasEmailAddress" AS "nco:Role_nco:hasEmailAddress7"
WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation6"."ID" AND
"nco:PersonContact_nco:hasAffiliation6"."nco:hasAffiliation" =
"nco:Role_nco:hasEmailAddress7"."ID"), (SELECT
GROUP_CONCAT("2_u"||? COLLATE NOCASE||COALESCE((SELECT
GROUP_CONCAT((SELECT Uri FROM Resource WHERE ID =
"nco:blogUrl"),',') FROM "nco:Role_nco:blogUrl" WHERE ID =
"2_u"), ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT
GROUP_CONCAT((SELECT Uri FROM Resource WHERE ID =
"nco:websiteUrl"),',') FROM "nco:Role_nco:websiteUrl" WHERE ID =
"2_u"), ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT
GROUP_CONCAT((SELECT Uri FROM Resource WHERE ID = "nco:url"),',')
FROM "nco:Role_nco:url" WHERE ID = "2_u"), ? COLLATE NOCASE),
'\n') FROM (SELECT
"nco:PersonContact_nco:hasAffiliation8"."nco:hasAffiliation" AS
"2_u" FROM "nco:PersonContact_nco:hasAffiliation" AS
"nco:PersonContact_nco:hasAffiliation8" WHERE "1_u" =
"nco:PersonContact_nco:hasAffiliation8"."ID"), (SELECT
GROUP_CONCAT("6_u", ',') FROM (SELECT
"rdfs:Resource_nao:hasTag9"."nao:hasTag" AS "6_u" FROM
"rdfs:Resource_nao:hasTag" AS "rdfs:Resource_nao:hasTag9" WHERE
"1_u" = "rdfs:Resource_nao:hasTag9"."ID"), (SELECT Uri FROM
Resource WHERE ID = "1_u"), (SELECT GROUP_CONCAT("2_u"||? COLLATE
NOCASE||COALESCE((SELECT "nco:role" FROM "nco:Affiliation" WHERE
ID = "2_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE

```

```

NOCASE||COALESCE((SELECT "nco:department" FROM "nco:Affiliation"
WHERE ID = "2_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE
NOCASE||COALESCE((SELECT GROUP_CONCAT("nco:title",',') FROM
"nco:Affiliation_nco:title" WHERE ID = "2_u"), ? COLLATE NOCASE),
'\n') FROM (SELECT
"nco:PersonContact_nco:hasAffiliation10"."nco:hasAffiliation" AS
"2_u" FROM "nco:PersonContact_nco:hasAffiliation" AS
"nco:PersonContact_nco:hasAffiliation10" WHERE "1_u" =
"nco:PersonContact_nco:hasAffiliation10"."ID"), (SELECT
GROUP_CONCAT("nco:note",',') FROM "nco:Contact_nco:note" WHERE ID
= "1_u"), (SELECT "nco:gender" FROM "nco:PersonContact" WHERE ID
= "1_u"), (SELECT GROUP_CONCAT("2_u"||? COLLATE
NOCASE||COALESCE((SELECT "nco:pobox" FROM "nco:PostalAddress"
WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE
NOCASE||COALESCE((SELECT "nco:district" FROM "nco:PostalAddress"
WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE
NOCASE||COALESCE((SELECT "nco:county" FROM "nco:PostalAddress"
WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE
NOCASE||COALESCE((SELECT "nco:locality" FROM "nco:PostalAddress"
WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE
NOCASE||COALESCE((SELECT "nco:postalcode" FROM
"nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE
NOCASE)||? COLLATE NOCASE||COALESCE((SELECT "nco:streetAddress"
FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ?
COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT Uri FROM
Resource WHERE ID = (SELECT "nco:addressLocation" FROM
"nco:PostalAddress" WHERE ID = "7_u")), ? COLLATE NOCASE)||?
COLLATE NOCASE||COALESCE((SELECT "nco:extendedAddress" FROM
"nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE
NOCASE)||? COLLATE NOCASE||COALESCE((SELECT "nco:country" FROM
"nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE
NOCASE)||? COLLATE NOCASE||COALESCE((SELECT "nco:region" FROM
"nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE
NOCASE), '\n') FROM (SELECT
"nco:PersonContact_nco:hasAffiliation11"."nco:hasAffiliation" AS
"2_u", "nco:Role_nco:hasPostalAddress12"."nco:hasPostalAddress"
AS "7_u" FROM "nco:PersonContact_nco:hasAffiliation" AS
"nco:PersonContact_nco:hasAffiliation11",
"nco:Role_nco:hasPostalAddress" AS
"nco:Role_nco:hasPostalAddress12" WHERE "1_u" =
"nco:PersonContact_nco:hasAffiliation11"."ID" AND
"nco:PersonContact_nco:hasAffiliation11"."nco:hasAffiliation" =
"nco:Role_nco:hasPostalAddress12"."ID"), (SELECT
GROUP_CONCAT("10_u" COLLATE NOCASE, ',') FROM (SELECT
"nie:InformationElement_nao:hasProperty13"."nao:hasProperty" AS
"8_u", "nao:Property14"."nao:propertyName" AS "9_u",
"nao:Property14"."nao:propertyValue" AS "10_u" FROM
"nie:InformationElement_nao:hasProperty" AS

```

```

"nie:InformationElement_nao:hasProperty13", "nao:Property" AS
"nao:Property14" WHERE "1_u" =
"nie:InformationElement_nao:hasProperty13"."ID" AND
"nie:InformationElement_nao:hasProperty13"."nao:hasProperty" =
"nao:Property14"."ID" AND "9_u" IS NOT NULL AND "10_u" IS NOT
NULL AND ("9_u" COLLATE NOCASE = ? COLLATE NOCASE))) FROM (SELECT
"nco:PersonContact1"."ID" AS "1_u" FROM "nco:PersonContact" AS
"nco:PersonContact1") ORDER BY "1_u";
}
} {/. * Goto .*/}

```

finish_test

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-
archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNIVkuI7/sqlite-src-3071700/test/fuzz-oss1.test
No license file was found, but licenses were detected in source scan.

```

without a shared lock, other processes are free to modify the database

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-
archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/atomiccommit.html
No license file was found, but licenses were detected in source scan.

```

<h3>Proprietary SQLite Extensions</h3>

public domain. But there also exist
proprietary, licensed extensions to SQLite, written and maintained
You are welcomed to use SQLite in closed source, proprietary, and/or

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-
archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/support.html
No license file was found, but licenses were detected in source scan.

```

)putinterval

Found in path(s):

```

* 1 index 0(BadFont
No license file was found, but licenses were detected in source scan.

```

Suppose the demo_data.boundary field holds some proprietary data description

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-
archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/rtree.html

```

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

Sources are in the public domain.

Rather than using fopen() to write XML or some proprietary format into

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-  
archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/features.html
```

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

```
# 2006 September 14
```

```
#
```

```
# The author disclaims copyright to this source code. In place of
```

```
# a legal notice, here is a blessing:
```

```
#
```

```
# May you do good and not evil.
```

```
# May you find forgiveness for yourself and forgive others.
```

```
# May you share freely, never taking more than you give.
```

```
#
```

```
*****
```

```
# This file implements regression tests for SQLite library. The
```

```
# focus of this script is testing the FTS2 module.
```

```
#
```

```
# $Id: fts2c.test,v 1.1 2006/10/19 23:36:26 shess Exp $
```

```
#
```

```
set testdir [file dirname $argv0]
```

```
source $testdir/tester.tcl
```

```
# If SQLITE_ENABLE_FTS2 is defined, omit this file.
```

```
ifcapable !fts2 {
```

```
  finish_test
```

```
  return
```

```
}
```

```
# Create a table of sample email data. The data comes from email
```

```
# archives of Enron executives that was published as part of the
```

```
# litigation against that company.
```

```
#
```

```
do_test fts2c-1.1 {
```

```
  db eval {
```

```
    CREATE VIRTUAL TABLE email USING fts2([from],[to],subject,body);
```

```
    BEGIN TRANSACTION;
```

```
    INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com',  
traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following  
changes will be made to the Autohedge functionality on EnronOnline.
```

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent

product. See rules below:

- ? If the transaction volume on the child is less than half of the parent's minimum volume no hedge will occur.
- ? If the transaction volume on the child is more than half the parent's minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent's minimum volume.
- ? For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent's Settings:

Minimum: 5000

Increment: 1000

Volume on Autohedge transaction Volume Hedged

1 - 2499 0

2500 - 5499 5000

5500 - 6499 6000');

INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com,', 'Leaving Early', 'FYI:

If it's ok with everyone's needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o'clock hour just let me know; I'll be more than willing to stay.');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concuworkplace.com', 'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready for approval:

Employee Name: Christopher F. Calger

Status last changed by: Mollie E. Gustafson Ms

Expense Report Name: CC02.06.02

Report Total: \$3,972.93

Amount Due Employee: \$3,972.93

To approve this expense report, click on the following link for Concur Expense.

<http://expense.ms.enron.com>');

INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,

Could you print off the current work request report by 1:30 today?

Gentlemen,

I'd like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD');

INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....

<http://biz.yahoo.com/rf/010129/n29305829.html>);

INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');

INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', '

The producer lumber pricing sheet.

-----Original Message-----

From: Johnson, Jay

Sent: Tuesday, October 16, 2001 3:42 PM

To: Carter, Karen E.

Subject: FW: Producers Newsletter 9-24-2001

-----Original Message-----

From: Daigre, Sergai

Sent: Friday, September 21, 2001 8:33 PM

Subject: Producers Newsletter 9-24-2001

);

INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would

be to offer up the Falcon for their use; however, given the tight time frame

and your recent visit with Mr. Fox that it would be difficult for either you

or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards

Delainey');

INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com',

'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com

713.853.3884

877.498.3401 Pager

-----Original Message-----

From: Bisbee, Joanne

Sent: Wednesday, September 26, 2001 7:50 AM

To: Fenceroy, LaChandra
Subject: FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----

From: Koh, Wendy
Sent: Tuesday, September 25, 2001 2:41 PM
To: Bisbee, Joanne
Subject: Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');

INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com', 'RE: worksheets', 'Fran,

If Julie's merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd's sheets as well.
Thanks.

Dan

-----Original Message-----

From: Fagan, Fran
Sent: Thursday, December 20, 2001 11:10 AM
To: McCarty, Danny
Subject: worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

');

INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT');

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com,', 'TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y¤t_efct_d ate=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.');

INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!');

INSERT INTO email([from],[to],subject,body) VALUES('legal <hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.');

INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');

INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.

In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott

IIR, Inc.

713-783-5147 x 3481

outages@industrialinfo.com

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.

- OUTAGE.dbf

- 111201R.xls

- 111201.xls ');

INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com', 'all_ena_egm_eim@enron.com', 'EWS Brown Bag', 'MARK YOUR LUNCH CALENDARS NOW !

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001

11:30 am - 12:30 pm

EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610');
INSERT INTO email([from],[to],subject,body) VALUES('chris.germany@enron.com',
'ingrid.immer@williams.com', 'Re: About St Pauls', 'Sounds good to me. I bet this is next to the Warick?? Hotel.

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: "'chris.germany@enron.com'" <chris.germany@enron.com>
cc:
Subject: About St Pauls

<<About St Pauls.url>>
?
?http://www.stpaulshouston.org/about.html

Chris,

I like the looks of this place.? What do you think about going here Christmas
eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m.,
among others.

Let me know.?? ii

- About St Pauls.url

);
INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrad.com,
kmccrea@sablax.com, thompson@wrightlaw.com', 'Reply Brief filed July 31, 2000', '- CPUC01-#76371-v1-
Revised_Reply_Brief__Due_today_7_31_.doc');
INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com,
lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00
AM November 20,2000: E-GAS Request Reminder
As discussed in the Winter Operations Meeting on Sept.29,2000,
E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC.

Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.

');

INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com', ', ')

Here is a goody for you');

INSERT INTO email([from],[to],subject,body) VALUES('ryan.o"rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com,', 'TRV Notification: (West VaR - 11/07/2001)', 'The report named: West VaR

<http://trv.corp.enron.com/linkFromExcel.asp?report_cd=36&report_name=West+VaR&category_cd=2&category_name=WEST&toc_hide=1&sTV1=2&TV1Exp=Y¤t_efct_date=11/07/2001>, published as of 11/07/2001 is now available for viewing on the website.');

INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, gggreen2@txu.com, timpowell@txu.com,', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap 10.000 / Enron ; 110.000 / HPL IFERC

LS HPL LSK IC 30.000 / Enron

');

INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira');

INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn"t know how deep to go with the desk. Do you think this works.

');

INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', ', 'George,

Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,

JMForney

3-7160');

INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');

INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam

35227

-----Original Message-----

From: Royed, Jeff

Sent: Tuesday, September 25, 2001 11:37 AM

To: Bayer, Adam

Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed

Enron

Energy Operations

Phone: 713-853-5295);

INSERT INTO email([from],[to],subject,body) VALUES('matt.smith@enron.com', 'yan.wang@enron.com', 'Report Formats', 'Yan,

The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts

15 Questar Pipeline

40 Rockies Production

22 West_2

23 West_3

25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.);

INSERT INTO email([from],[to],subject,body) VALUES('michelle.lokay@enron.com', 'jimboman@bigfoot.com', 'Egyptian Festival', '----- Forwarded by Michelle Lokay/ET&S/Enron on 09/07/2000 10:08 AM -----

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM

To: ""Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"

<Leila_Mankarious@mhhs.org>, ""Marymankarious (E-mail)"

<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy

Mankarious (E-mail)" <Mankarious@aol.com>

cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

<http://www.egyptianfestival.com/>

- Egyptian Festival.url

');

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com',
'sherry.dawson@enron.com', 'Urgent!!! --- New EAST books', 'This has to be done.....')

Thanks

----- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000
08:39 AM -----

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David
Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R
Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra
Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:

Scott Neal : East Northeast

Dick Jenkins: East Marketeast

WK

');

INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com',
'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will
affect any Inactive Child.

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at

which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357

Europe: + 44 (0) 20 7783 7783

Asia/Australia: +61 2 9229 2300

Dave');

INSERT INTO email([from],[to],subject,body) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re: Light reading - see pieces beginning on page 7', 'John,

I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM

To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>

cc:

Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');

INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com',

'mmmarcanel@equiva.com', 'RE:', 'i will try to line up a pig for you ');

INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com, judy.martinez@enron.com,', 'Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black

East Power Trading

Assistant to Kevin Presto

off. 713-853-5800

fax 713-646-8272

cell 713-539-4760);

INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,

Eric');

INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm..tholt@enron.com', '10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE]

[IMAGE][IMAGE][IMAGE]

Dear SmartReminders Member,

[IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]

We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers,click here.

SmartReminders.com is a permission based service. To unsubscribe click here . ');

INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com',

'mark.bernstein@enron.com', ", 'The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA's in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!

Ben');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concreworkplace.com', 'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash
Report Name: Houston Cellular 8-11-01
Report Date: 12/13/01
Report ID: 594D37C9ED2111D5B452
Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.);

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, mark.palmer@enron.com, karen.denne@enron.com,', 'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI. the latest broadside against the generators.

Sue Mara

Enron Corp.

Tel: (415) 782-7802

Fax:(415) 782-7854

----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: ""smara@enron.com""
<smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie

<http://www.caiso.com/docs/2001/06/08/200106081005526469.pdf>

');

INSERT INTO email([from],[to],subject,body) VALUES('fletcher.sturm@enron.com', 'eloy.escobar@enron.com', 'Re: General Brinks Position Meeting', 'Eloy,

Who is General Brinks?

Fletch');

INSERT INTO email([from],[to],subject,body) VALUES('nailia.dindarova@enron.com', 'richard.shapiro@enron.com', 'Documents for Mark Frevert (on EU developments and lessons from', 'Rick,

Here are the documents that Peter has prepared for Mark Frevert.

Nailia

----- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001
16:36 -----

Nailia Dindarova

25/06/2001 15:36

To: Michael Brown/Enron@EUEnronXGate

cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter
Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from
California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert.
He has now handed them to him in person but asked me to transmit them
electronically to you, as well as Eric and Ross.

Nailia

');

INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com',
'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:

- Finalize market analysis to refine business case, specifically
projected revenue stream
- Complete counterparty surveying, including targeting 3 CPs for letters
of intent
- Review Enron asset base for potential reuse/ licensing
- Contract negotiations

Joe will come back to us with an updated time line, but it is my
expectation that we are still on the same schedule (we just begun week
three) with possibly a week or so slippage.....contract negotiations will
probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)

- accenture-dealpoints v2.doc ');

INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com',
'Re: Guadalupe Power Partners LP', '----- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001
03:49 PM -----

Thomas A Martin

10/11/2000 03:55 PM

To: Patrick Wade/HOU/ECT@ECT

cc:

Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to NYMEX close.

');

INSERT INTO email([from],[to],subject,body) VALUES('judy.townsend@enron.com', 'dan.junek@enron.com,
chris.germany@enron.com', 'Columbia Distribution"s Capacity Available for Release - Sum', '-----
Forwarded by Judy Townsend/HOU/ECT on 03/09/2001 11:04
AM -----

agoddard@nsource.com on 03/08/2001 09:16:57 AM

To: " - *Koch, Kent" <kkoch@nsource.com>, " -
*Millar, Debra" <dmillar@nsource.com>, " - *Burke, Lynn"
<lburke@nsource.com>

cc: " - *Heckathorn, Tom" <theckathorn@nsource.com>

Subject: Columbia Distribution"s Capacity Available for Release - Sum

Attached is Columbia Distribution"s notice of capacity available for release for the summer of 2001 (Apr. 2001 through Oct. 2001).

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc

');

INSERT INTO email([from],[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com, dana.davis@enron.com, genia.fitzgerald@enron.com,', 'Split Rock Energy LLC', 'We have received the executed EEI contract from this CP dated 12/12/2000.

Copies will be distributed to Legal and Credit.');

INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com, crow@millernash.com, michaelearly@earthlink.net,', 'Oral Argument Request', ' - Oral Argument Request.doc');

INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com', ', 'Did you come in town this wk end..... My new number at our house is :

713-668-3712..... my cell # is 281-381-7332

the kid');

INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info', '

-----Original Message-----

From: Punja, Karim

Sent: Thursday, December 13, 2001 2:35 PM

To: Richey, Cooper

Subject: Contact Info

Cooper,

Its been a real pleasure working with you (even though it was for only a small amount of time)

I hope we can stay in touch.

Home# 234-0249

email: kpunja@hotmail.com

Take Care,

Karim.

');

INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com,', 'email address change', 'Hello all.

I haven't talked to many of you via email recently but I do want to give you my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');

INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I'm hearing there is some hold-up & the units are stored on 44.

Shelley');

INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com,', '2001 Enron Law Conference (Distribution List 2)', ' Enron Law Conference

San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at <http://lawconference.corp.enron.com>. The website is still under construction and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

');

INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i'll call pat and let him know - we are coming on saturday - i just havent had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');

INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,

I'll get it done today.

DG 3-9573

From: Bryce Baxter

06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT

cc:

Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');

```
INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com', 'Gas EOL ID', 'Stephanie,
```

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson

PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson

EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!

Casey');

```
INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com', 'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com,', 'Postings', 'Please see the attached.
```

ds

');

```
INSERT INTO email([from],[to],subject,body) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com, james_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --
```

It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation.

I wasn't sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL's work. Martin.

Martin B. Cominsky

Director, Southwest Region

Anti-Defamation League

713/627-3490, ext. 122

713/627-2011 (fax)

MCominsky@aol.com');

INSERT INTO email([from],[to],subject,body) VALUES('phillip.love@enron.com', 'todagost@utmb.edu, gbsonnta@utmb.edu', 'New President', 'I had a little bird put a word in my ear. Is there any possibility for Ben Raimer to be Bush's secretary of HHS? Just curious about that infamous UTMB rumor mill. Hope things are well, happy holidays.

PL');

INSERT INTO email([from],[to],subject,body) VALUES('marie.heard@enron.com', 'ehamilton@fna.com', 'ISDA Master Agreement', 'Erin:

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard

Senior Legal Specialist

Enron North America Corp.

Phone: (713) 853-3907

Fax: (713) 646-3490

marie.heard@enron.com

');

INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

');

INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j.bonin@enron.com, felicia.case@enron.com, b.clapp@enron.com', 'Price List week of Oct. 8-9, 2001', '

Please contact me if you have any questions regarding last weeks prices.

Thank you,

Karolyn Criado
3-9441

');

INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com',
'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our
Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail
risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.');

INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com',
'RE: Constellation TC 5-7-01', 'Gregg,

I am at home with a sick baby. (Lots of fun!) I will call you about this
tomorrow.

Stacy');

INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', ', 'hey
big guy.....check this out.....

w ww.gorelieberman-2000.com/');

INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqestc@aol.com', ', 'Jacques,

I sent you a fax of Kevin Kolb's comments on the release. The payoff on the note would be \$36,248
(\$36090(principal) + \$158 (accrued interest)).

This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip');

INSERT INTO email([from],[to],subject,body) VALUES('kourtney.nelson@enron.com',
'mike.swerzbin@enron.com', 'Adjusted L/R Balance', 'Mike,

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two
links:

- 1) "Adj L_R" is the same data/format from the weekly strategy meeting.
- 2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
-Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not
included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson

Fundamental Analysis

Enron North America

(503) 464-8280

kourtney.nelson@enron.com');

INSERT INTO email([from],[to],subject,body) VALUES('d..thomas@enron.com', 'naveed.ahmed@enron.com', 'FW: Current Enron TCC Portfolio', '

-----Original Message-----

From: Grace, Rebecca M.

Sent: Monday, December 17, 2001 9:44 AM

To: Thomas, Paul D.

Cc: Cashion, Jim; Allen, Thresa A.; May, Tom

Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY's list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----

From: Thomas, Paul D.

Sent: Monday, December 17, 2001 9:08 AM

To: Grace, Rebecca M.

Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>

Rebecca,

Let me know if you see any differences.

Paul

X 3-0403

-----Original Message-----

From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----

From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

);
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',
'william.bradford@enron.com, debbie.brackett@enron.com,', 'Coastal Merchant Energy/El Paso Merchant Energy',
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy,
L.P., effective February 1, 2001, with the surviving entity being El Paso
Merchant Energy, L.P. We currently have ISDA Master Agreements with both
counterparties. Please see the attached memo regarding the existing Masters
and let us know which agreement should be terminated.

Thanks,
Stephanie

);
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE:
What about this too???' , '

-----Original Message-----

From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>

);
INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com',
'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which
means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');

INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com',
'jworman@academyofhealth.com', '', 'Have a great weekend! Happy Fathers Day!')

Debra Perlingiere

Enron North America Corp.

1400 Smith Street, EB 3885

Houston, Texas 77002

dperlin@enron.com

Phone 713-853-7658

Fax 713-646-3490');

INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', '', 'Demo by Martha Janousek
of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY: APPOINTMENT

Description:

Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001

Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:');

INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com',
'Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile.

We got a request for guest access through MG.

The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.

F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as
soon as Enron has done the due diligence for this country.

Thanks !

Best regards

Diana Seifert

EOL PCG');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concuere workplace.com',
'mark.whitt@enron.com', '<<Concur Expense Document>> - 121001', 'The Approval status has changed on the
following report:

Status last changed by: Barry L. Tycholiz

Expense Report Name: 121001

Report Total: \$198.98

Amount Due Employee: \$198.98

Amount Approved: \$198.98

Amount Paid: \$0.00

Approval Status: Approved

Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.

<http://expensecms.enron.com>');

INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', ', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:

1800 678-515

support@palm-au.com

Canada:

1905 305-6530

support@palm.com

New Zealand:

0800 446-398

support@palm-nz.com

U.K.:

0171 867 0108

eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.');

INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com', 'RE:', 'duke contact?'

-----Original Message-----

From: Quigley, Dutch

Sent: Wednesday, October 31, 2001 10:14 AM

To: Storey, Geoff

Subject: RE:

bp corp Albert LaMore 281-366-4962

running the reports now

-----Original Message-----

From: Storey, Geoff

Sent: Wednesday, October 31, 2001 10:10 AM

To: Quigley, Dutch

Subject: RE:

give me a contact over there too

BP

-----Original Message-----

From: Quigley, Dutch

Sent: Wednesday, October 31, 2001 9:42 AM

To: Storey, Geoff

Subject:

Coral Jeff Whitnah 713-767-5374

Relaint Steve McGinn 713-207-4000);

INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start Date: 4/22/01; HourAhead hour: 3; <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3; No ancillary schedules awarded.

Variances detected.

Variances detected in Load schedule.

LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----

\$\$\$ Variance found in table tblLoads.

Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)

TRANS_TYPE: FINAL

LOAD_ID: PGE4

MKT_TYPE: 2

TRANS_DATE: 4/22/01

SC_ID: EPMI

');

INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com', 'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');

INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com', 'Ischiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I'm seeing Glen at 11:15....talk to you');

INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', ', 'Lite Bytz RSVP', ' This week's Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall

Solaris 8

Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

<http://home.enron.com:84/messaging/litebytztoolzprint.jpg>);

```
    COMMIT;
  }
} {}
```

```
#####
# Everything above just builds an interesting test database. The actual
# tests come after this comment.
#####
```

```
do_test fts2c-1.2 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark'
  }
} {6 17 25 38 40 42 73 74}
do_test fts2c-1.3 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan'
  }
} {24 40}
do_test fts2c-1.4 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark susan'
  }
} {40}
do_test fts2c-1.5 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan mark'
  }
} {40}
do_test fts2c-1.6 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH "'mark susan'"
  }
} {}
do_test fts2c-1.7 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
```

```

}
} {6 17 25 38 42 73 74}
do_test fts2c-1.8 {
execsql {
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
}
} {24}
do_test fts2c-1.9 {
execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
}
} {6 17 24 25 38 40 42 73 74}

```

Some simple tests of the automatic "offsets(email)" column. In the sample # data set above, only one message, number 20, contains the words # "gas" and "reminder" in both body and subject.

```

#
do_test fts2c-2.1 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
}
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts2c-2.2 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
}
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts2c-2.3 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
}
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts2c-2.4 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
}
} {20 {2 0 42 3 2 1 54 8}}
do_test fts2c-2.5 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
}
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

```

```

# Document 32 contains 5 instances of the word "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts2c-3.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
  }
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts2c-3.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH "'child product'"
  }
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

# Snippet generator tests
#
do_test fts2c-4.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
} {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts2c-4.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
  }
} {{<b>...</b> place.? What do you think about going here <b>Christmas</b>
eve?? They have an 11:00 a.m. service and a <b>candlelight</b> service at 5:00 p.m.,
among others. <b>...</b>}}

do_test fts2c-4.3 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
} {{EOL-Accenture <b>Deal</b> <b>Sheet</b> <b>...</b> intent
Review Enron asset base for <b>potential</b> <b>reuse</b>/ licensing
Contract negotiations <b>...</b>}}
do_test fts2c-4.4 {
  execsql {
    SELECT snippet(email,'<<<','>>>',') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> intent

```

```

    Review Enron asset base for <<<potential>>> <<<reuse>>>/ licensing
    Contract negotiations }}
do_test fts2c-4.5 {
execsql {
    SELECT snippet(email,'<<<','>>>',') FROM email
    WHERE email MATCH 'first things'
}
} {{Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now on the }}
do_test fts2c-4.6 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'chris is here'
}
} {{<b>chris</b>.germany@enron.com <b>...</b> Sounds good to me. I bet this <b>is</b> next to the Warick??
Hotel. <b>...</b> place.? What do you think about going <b>here</b> Christmas
eve?? They have an 11:00 a.m. <b>...</b>}}
do_test fts2c-4.7 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH "'pursuant to'"
}
} {{Erin:

<b>Pursuant</b> <b>to</b> your request, attached are the Schedule to <b>...</b>}}
do_test fts2c-4.8 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'ancillary load davis'
}
} {{pete.<b>davis</b>@enron.com <b>...</b> Start Date: 4/22/01; HourAhead hour: 3; No <b>ancillary</b>
schedules awarded.
Variances detected.
Variances detected in <b>Load</b> schedule.

LOG MESSAGES:

PARSING <b>...</b>}}

# Combinations of AND and OR operators:
#
do_test fts2c-5.1 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'questar enron OR com'
}
} {{matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:

31 Keystone Receipts

```

```
15 <b>Questar</b> Pipeline
40 Rockies Production
22 West_2 <b>...</b>}}
do_test fts2c-5.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'enron OR com questar'
  }
} { {matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:
```

```
31 Keystone Receipts
15 <b>Questar</b> Pipeline
40 Rockies Production
22 West_2 <b>...</b>}}
```

```
finish_test
```

```
Found in path(s):
```

```
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-
archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNIVkuI7/sqlite-src-3071700/test/fts2c.test
No license file was found, but licenses were detected in source scan.
```

```
INSERT INTO x1 VALUES('blonds', 'proprietary');
```

```
Found in path(s):
```

```
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-
archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNIVkuI7/sqlite-src-3071700/test/e_select.test
No license file was found, but licenses were detected in source scan.
```

```
# 2006 September 14
```

```
#
```

```
# The author disclaims copyright to this source code. In place of
```

```
# a legal notice, here is a blessing:
```

```
#
```

```
# May you do good and not evil.
```

```
# May you find forgiveness for yourself and forgive others.
```

```
# May you share freely, never taking more than you give.
```

```
#
```

```
*****
```

```
# This file implements regression tests for SQLite library. The
```

```
# focus of this script is testing the FTS1 module.
```

```
#
```

```
# $Id: fts1c.test,v 1.11 2006/10/04 17:35:28 drh Exp $
```

```
#
```

```
set testdir [file dirname $argv0]
```

```
source $testdir/tester.tcl
```


If SQLITE_ENABLE_FTS1 is defined, omit this file.

```
ifcapable !fts1 {  
  finish_test  
  return  
}
```

Create a table of sample email data. The data comes from email

archives of Enron executives that was published as part of the

litigation against that company.

#

```
do_test fts1c-1.1 {
```

```
  db eval {
```

```
    CREATE VIRTUAL TABLE email USING fts1([from],[to],subject,body);
```

```
    BEGIN TRANSACTION;
```

```
    INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com',  
traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following  
changes will be made to the Autohedge functionality on EnronOnline.
```

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

? If the transaction volume on the child is less than half of the parent's minimum volume no hedge will occur.

? If the transaction volume on the child is more than half the parent's minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent's minimum volume.

? For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent's Settings:

Minimum: 5000

Increment: 1000

Volume on Autohedge transaction Volume Hedged

1 - 2499 0

2500 - 5499 5000

5500 - 6499 6000');

```
INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com',  
lisa.king@enron.com, lisa.best@enron.com,', 'Leaving Early', 'FYI:
```

```
If it's ok with everyone's needs, I would like to leave @4pm. If you think  
you will need my assistance past the 4 o'clock hour just let me know; I'll  
be more than willing to stay.');
```

```
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concuere workplace.com',
```

```
'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready  
for approval:
```

Employee Name: Christopher F. Calger

Status last changed by: Mollie E. Gustafson Ms

Expense Report Name: CC02.06.02

Report Total: \$3,972.93

Amount Due Employee: \$3,972.93

To approve this expense report, click on the following link for Concur Expense.

<http://expensexms.enron.com>);

INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,

Could you print off the current work request report by 1:30 today?

Gentlemen,

I'd like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD');

INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....

<http://biz.yahoo.com/rf/010129/n29305829.html>);

INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');

INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', '

The producer lumber pricing sheet.

-----Original Message-----

From: Johnson, Jay

Sent: Tuesday, October 16, 2001 3:42 PM

To: Carter, Karen E.

Subject: FW: Producers Newsletter 9-24-2001

-----Original Message-----

From: Daigre, Sergai

Sent: Friday, September 21, 2001 8:33 PM

Subject: Producers Newsletter 9-24-2001

');

INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards

Delainey');

INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com',
'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com

713.853.3884

877.498.3401 Pager

-----Original Message-----

From: Bisbee, Joanne

Sent: Wednesday, September 26, 2001 7:50 AM

To: Fenceroy, LaChandra

Subject: FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----

From: Koh, Wendy

Sent: Tuesday, September 25, 2001 2:41 PM

To: Bisbee, Joanne

Subject: Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');

INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com',
'RE: worksheets', 'Fran,

If Julie's merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd's sheets as well.

Thanks.

Dan

-----Original Message-----

From: Fagan, Fran

Sent: Thursday, December 20, 2001 11:10 AM

To: McCarty, Danny

Subject: worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

');

INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT');

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com,', 'TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y¤t_efct_d ate=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.');

INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!');

INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.');

INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');

INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.

In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott

IIR, Inc.

713-783-5147 x 3481

outages@industrialinfo.com

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.

- OUTAGE.dbf

- 111201R.xls

- 111201.xls ');

INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com', 'all_ena_egm_eim@enron.com', 'EWS Brown Bag', 'MARK YOUR LUNCH CALENDARS NOW !

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001

11:30 am - 12:30 pm

EB 5 C2

You bring your lunch, Limited Seating

We provide drinks and dessert. RSVP x 3-9610');

INSERT INTO email([from],[to],subject,body) VALUES('chris.germany@enron.com', 'ingrid.immer@williams.com', 'Re: About St Pauls', 'Sounds good to me. I bet this is next to the Warick?? Hotel.

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM

To: ""chris.germany@enron.com"" <chris.germany@enron.com>

cc:

Subject: About St Pauls

<<About St Pauls.url>>

?

?http://www.stpaulshouston.org/about.html

Chris,

I like the looks of this place.? What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.?? ii

- About St Pauls.url

');

INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com, kmccrea@sablaw.com, thompson@wrightlaw.com,', 'Reply Brief filed July 31, 2000', '- CPUC01-#76371-v1-Revised_Reply_Brief__Due_today_7_31_.doc');

INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@agresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder

As discussed in the Winter Operations Meeting on Sept.29,2000,

E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC.

Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.

');

INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com', ', ')

Here is a goody for you');

INSERT INTO email([from],[to],subject,body) VALUES('ryan.o"rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com,', 'TRV Notification: (West VaR - 11/07/2001)', 'The report named: West VaR

<http://trv.corp.enron.com/linkFromExcel.asp?report_cd=36&report_name=West+VaR&category_cd=2&category_name=WEST&toc_hide=1&sTV1=2&TV1Exp=Y¤t_efct_date=11/07/2001>, published as of 11/07/2001 is now available for viewing on the website.');

INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, ggreen2@txu.com, timpowell@txu.com,', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap 10.000 / Enron ; 110.000 / HPL IFERC

LS HPL LSK IC 30.000 / Enron

');

INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira');

INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn"t know how deep to go with the desk. Do you think this works.

');

INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', ', 'George,

Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,

JMForney

3-7160');

INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');

INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam

35227

-----Original Message-----

From: Royed, Jeff

Sent: Tuesday, September 25, 2001 11:37 AM

To: Bayer, Adam

Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed

Enron

Energy Operations

Phone: 713-853-5295');

INSERT INTO email([from],[to],subject,body) VALUES('matt.smith@enron.com', 'yan.wang@enron.com', 'Report Formats', 'Yan,

The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts

15 Questar Pipeline

40 Rockies Production

22 West_2

23 West_3

25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.);
INSERT INTO email([from],[to],subject,body) VALUES('michelle.lokay@enron.com', 'jimboman@bigfoot.com',
'Egyptian Festival', '----- Forwarded by Michelle Lokay/ET&S/Enron on 09/07/2000
10:08 AM -----

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: ""Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
<Leila_Mankarious@mhhs.org>, ""Marymankarious (E-mail)"
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy
Mankarious (E-mail)" <Mankarious@aol.com>
cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

<http://www.egyptianfestival.com/>

- Egyptian Festival.url

);

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com',
'sherry.dawson@enron.com', 'Urgent!!! --- New EAST books', 'This has to be done.....

Thanks

----- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000
08:39 AM -----

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David
Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R
Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra
Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is
extremely important that any deal booked to the East is communicated quickly
to someone on my team. I know it will take some time for the new names to
sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:

Scott Neal : East Northeast

Dick Jenkins: East Marketeast

WK

');

INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357

Europe: + 44 (0) 20 7783 7783

Asia/Australia: +61 2 9229 2300

Dave');

INSERT INTO email([from],[to],subject,body) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re: Light reading - see pieces beginning on page 7', 'John,

I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM

To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>

cc:

Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

);
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com',
'mmmarcanel@equiva.com', 'RE:', 'i will try to line up a pig for you ');
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com,
chaun.roberts@enron.com, judy.martinez@enron.com,', 'Disaster Recovery Equipment', 'As a reminder...there are
several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery
Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer
system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment
for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760);

INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X
24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this
product out ASAP.

Thanks,

Eric');
INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm..tholt@enron.com',
'10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE]
[IMAGE][IMAGE][IMAGE]

Dear SmartReminders Member,

[IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]

We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers,click here.

SmartReminders.com is a permission based service. To unsubscribe click here . ');

INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com', 'mark.bernstein@enron.com', ', 'The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA"s in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!

Ben');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concreworkplace.com', 'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash
Report Name: Houston Cellular 8-11-01
Report Date: 12/13/01
Report ID: 594D37C9ED2111D5B452
Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.');

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, mark.palmer@enron.com, karen.denne@enron.com,', 'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI. the latest broadside against the generators.

Sue Mara

Enron Corp.

Tel: (415) 782-7802

Fax:(415) 782-7854

----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: ""smara@enron.com"" <smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie

<http://www.caiso.com/docs/2001/06/08/200106081005526469.pdf>

);

INSERT INTO email([from],[to],subject,body) VALUES('fletcher.sturm@enron.com', 'eloy.escobar@enron.com', 'Re: General Brinks Position Meeting', 'Eloy,

Who is General Brinks?

Fletch');

INSERT INTO email([from],[to],subject,body) VALUES('nailia.dindarova@enron.com', 'richard.shapiro@enron.com', 'Documents for Mark Frevert (on EU developments and lessons from', 'Rick,

Here are the documents that Peter has prepared for Mark Frevert.

Nailia

----- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001

16:36 -----

Nailia Dindarova

25/06/2001 15:36

To: Michael Brown/Enron@EUEnronXGate

cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

);
INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com',
'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:

- Finalize market analysis to refine business case, specifically
projected revenue stream
- Complete counterparty surveying, including targeting 3 CPs for letters
of intent
- Review Enron asset base for potential reuse/ licensing
- Contract negotiations

Joe will come back to us with an updated time line, but it is my
expectation that we are still on the same schedule (we just begun week
three) with possibly a week or so slippage.....contract negotiations will
probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)

- accenture-dealpoints v2.doc ');

INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com',
'Re: Guadalupe Power Partners LP', '----- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001
03:49 PM -----

Thomas A Martin

10/11/2000 03:55 PM

To: Patrick Wade/HOU/ECT@ECT

cc:

Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at
either HSC, Waha or Katytailgate GD at buyers option three days prior to
NYMEX close.

);

INSERT INTO email([from],[to],subject,body) VALUES('judy.townsend@enron.com', 'dan.junek@enron.com',
chris.germany@enron.com', 'Columbia Distribution's Capacity Available for Release - Sum', '-----
Forwarded by Judy Townsend/HOU/ECT on 03/09/2001 11:04
AM -----

agoddard@nsource.com on 03/08/2001 09:16:57 AM

To: " - *Koch, Kent" <kkoch@nsource.com>, " -
*Millar, Debra" <dmillar@nsource.com>, " - *Burke, Lynn"
<lburke@nsource.com>
cc: " - *Heckathorn, Tom" <theckathorn@nsource.com>
Subject: Columbia Distribution's Capacity Available for Release - Sum

Attached is Columbia Distribution's notice of capacity available for release
for
the summer of 2001 (Apr. 2001 through Oct. 2001).

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives
listed
at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc

');

INSERT INTO email([from],[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com,
dana.davis@enron.com, genia.fitzgerald@enron.com,', 'Split Rock Energy LLC', 'We have received the executed
EEI contract from this CP dated 12/12/2000.

Copies will be distributed to Legal and Credit.');

INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com,
crow@millernash.com, michaelearly@earthlink.net,', 'Oral Argument Request', ' - Oral Argument Request.doc');

INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com', ",

'Did you come in town this wk end..... My new number at our house is :

713-668-3712..... my cell # is 281-381-7332

the kid');

INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com',
'FW: Contact Info', '

-----Original Message-----

From: Punja, Karim

Sent: Thursday, December 13, 2001 2:35 PM

To: Richey, Cooper

Subject: Contact Info

Cooper,

Its been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.

);
INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com,
mcguinn.ian@enron.com, mcguinn.stephen@enron.com,', 'email address change', 'Hello all.

I haven't talked to many of you via email recently but I do want to give you
my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com',
'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas
logistics team. It was in the budget and we had the okay, but now I'm hearing there is some hold-up & the units are
stored on 44.

Shelley');
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com',
'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com,', '2001 Enron Law Conference
(Distribution List 2)', ' Enron Law Conference

San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an
Online RSVP Form on the Enron Law Conference Website at
<http://lawconference.corp.enron.com>. The website is still under construction
and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website
is operational.

? Please complete the Online RSVP Form as soon as it is available and submit
it no later than Friday, March 30th.

);
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com',
'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i'll call pat
and let him know - we are coming on saturday - i just havent had a chance to
call you guys back -- looking forward to it -- i probably need the
directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com',
'Re: Feedback for Audrey Cook', 'Bryce,

I'll get it done today.

DG 3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT

cc:

Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

);
INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com',
'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson

PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson

EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!

Casey');
INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com',
'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com,', 'Postings', 'Please see the
attached.

ds

);
INSERT INTO email([from],[to],subject,body) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com,
james_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will
have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation.
I wasn't sure whether he transmitted them to you as well. Would you please
advise me if you would like them sent to you? I can email the MS Excel files
or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email,
or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL's work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com');

INSERT INTO email([from],[to],subject,body) VALUES('phillip.love@enron.com', 'todayost@utmb.edu,
gbsonnta@utmb.edu', 'New President', 'I had a little bird put a word in my ear. Is there any possibility for Ben
Raimier to be Bush's secretary of HHS? Just curious about that infamous UTMB
rumor mill. Hope things are well, happy holidays.

PL');
INSERT INTO email([from],[to],subject,body) VALUES('marie.heard@enron.com', 'ehamilton@fna.com', 'ISDA
Master Agreement', 'Erin:

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to
the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your
comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

);
INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com',
'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

);
INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com,
felicia.case@enron.com, b..clapp@enron.com,', 'Price List week of Oct. 8-9, 2001', '
Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

);
INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com',
'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our
Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail
risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.);
INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com',
'RE: Constellation TC 5-7-01', 'Gregg,

I am at home with a sick baby. (Lots of fun!) I will call you about this
tomorrow.

Stacy');
INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', '', 'hey
big guy.....check this out.....

w ww.gorelieberman-2000.com/');
INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacquestc@aol.com', '', 'Jacques,

I sent you a fax of Kevin Kolb's comments on the release. The payoff on the note would be \$36,248 (\$36090(principal) + \$158 (accrued interest)).
This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip);

INSERT INTO email([from],[to],subject,body) VALUES('kourtney.nelson@enron.com',
'mike.swerzbin@enron.com', 'Adjusted L/R Balance', 'Mike,

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

- 1) "Adj L_R" is the same data/format from the weekly strategy meeting.
- 2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
-Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson

Fundamental Analysis

Enron North America

(503) 464-8280

kourtney.nelson@enron.com);

INSERT INTO email([from],[to],subject,body) VALUES('d..thomas@enron.com', 'naveed.ahmed@enron.com',
'FW: Current Enron TCC Portfolio', '

-----Original Message-----

From: Grace, Rebecca M.

Sent: Monday, December 17, 2001 9:44 AM

To: Thomas, Paul D.

Cc: Cashion, Jim; Allen, Thresa A.; May, Tom

Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY's list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----

From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:08 AM
To: Grace, Rebecca M.
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>

Rebecca,
Let me know if you see any differences.

Paul

X 3-0403

-----Original Message-----

From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----

From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');

INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',
'william.bradford@enron.com, debbie.brackett@enron.com,', 'Coastal Merchant Energy/El Paso Merchant Energy',
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy,
L.P., effective February 1, 2001, with the surviving entity being El Paso
Merchant Energy, L.P. We currently have ISDA Master Agreements with both
counterparties. Please see the attached memo regarding the existing Masters
and let us know which agreement should be terminated.

Thanks,
Stephanie

');

INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE:

What about this too???, '

-----Original Message-----

From: Kenne, Dawn C.

Sent: Wednesday, February 06, 2002 11:50 AM

To: Keiser, Kam

Subject: What about this too???

<< File: Netco Trader Matrix.xls >>

');

INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com', 'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris

x31666');

INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com', 'jworman@academyofhealth.com', ', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere

Enron North America Corp.

1400 Smith Street, EB 3885

Houston, Texas 77002

dperlin@enron.com

Phone 713-853-7658

Fax 713-646-3490');

INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', ', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY: APPOINTMENT

Description:

Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001

Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:');

INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile.

We got a request for guest access through MG.

The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.

F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.

Thanks !

Best regards

Diana Seifert

EOL PCG');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concuworkplace.com', 'mark.whitt@enron.com', '<<Concur Expense Document>> - 121001', 'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz

Expense Report Name: 121001

Report Total: \$198.98

Amount Due Employee: \$198.98

Amount Approved: \$198.98

Amount Paid: \$0.00

Approval Status: Approved

Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.

<http://expense.ms.enron.com>');

INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:

1800 678-515

support@palm-au.com

Canada:

1905 305-6530

support@palm.com

New Zealand:

0800 446-398

support@palm-nz.com

U.K.:

0171 867 0108

eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.');

INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com',

'RE:', 'duke contact?'

-----Original Message-----

From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 10:14 AM
To: Storey, Geoff
Subject: RE:

bp corp Albert LaMore 281-366-4962

running the reports now

-----Original Message-----

From: Storey, Geoff
Sent: Wednesday, October 31, 2001 10:10 AM
To: Quigley, Dutch
Subject: RE:

give me a contact over there too
BP

-----Original Message-----

From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject:

Coral Jeff Whitnah 713-767-5374

Relaint Steve McGinn 713-207-4000');

INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start
Date: 4/22/01; HourAhead hour: 3; <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3; No ancillary
schedules awarded.

Variances detected.

Variances detected in Load schedule.

LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final
Schedules\2001042203.txt

---- Load Schedule ----

\$\$\$ Variance found in table tblLoads.

Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)

TRANS_TYPE: FINAL

LOAD_ID: PGE4

MKT_TYPE: 2

TRANS_DATE: 4/22/01

SC_ID: EPMI

);

```
INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com',
'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost
here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to
get everything in order just in case something happens.
```

John');

```
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com',
'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the
shower). I have had a shitty week--I suspect my silence (not only to you,
but others) after our phone call is a result of the week. I'm seeing Glen at
11:15....talk to you');
```

```
INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', ', 'Lite Bytz RSVP', '
This week's Lite Bytz presentation will feature the following TOOLZ speaker:
```

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

<http://home.enron.com:84/messaging/litebytztoolzprint.jpg>);

```
COMMIT;
}
} {}
```

```
#####
# Everything above just builds an interesting test database. The actual
# tests come after this comment.
#####
```

```
do_test fts1c-1.2 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark'
  }
} {6 17 25 38 40 42 73 74}
do_test fts1c-1.3 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan'
  }
}
```



```

} {24 40}
do_test fts1c-1.4 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark susan'
  }
} {40}
do_test fts1c-1.5 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan mark'
  }
} {40}
do_test fts1c-1.6 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH "'mark susan'"
  }
} {}
do_test fts1c-1.7 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
  }
} {6 17 25 38 42 73 74}
do_test fts1c-1.8 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
  }
} {24}
do_test fts1c-1.9 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
  }
} {6 17 24 25 38 40 42 73 74}

```

```

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#

```

```

do_test fts1c-2.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts1c-2.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}

```

```

do_test fts1c-2.3 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
  }
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts1c-2.4 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8}}
do_test fts1c-2.5 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
  }
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts1c-3.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
  }
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts1c-3.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH "'child product'"
  }
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

# Snippet generator tests
#
do_test fts1c-4.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
} {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts1c-4.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
  }
}

```

```

}
} {{<b>...</b> place.? What do you think about going here <b>Christmas</b>
eve?? They have an 11:00 a.m. service and a <b>candlelight</b> service at 5:00 p.m.,
among others. <b>...</b>}}

do_test fts1c-4.3 {
execsql {
  SELECT snippet(email) FROM email
  WHERE email MATCH 'deal sheet potential reuse'
}
} {{EOL-Accenture <b>Deal</b> <b>Sheet</b> <b>...</b> intent
  Review Enron asset base for <b>potential</b> <b>reuse</b>/ licensing
  Contract negotiations <b>...</b>}}

do_test fts1c-4.4 {
execsql {
  SELECT snippet(email,'<<<','>>>',') FROM email
  WHERE email MATCH 'deal sheet potential reuse'
}
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> intent
  Review Enron asset base for <<<potential>>> <<<reuse>>>/ licensing
  Contract negotiations }}

do_test fts1c-4.5 {
execsql {
  SELECT snippet(email,'<<<','>>>',') FROM email
  WHERE email MATCH 'first things'
}
} {{Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now on the }}

do_test fts1c-4.6 {
execsql {
  SELECT snippet(email) FROM email
  WHERE email MATCH 'chris is here'
}
} {{<b>chris</b>.germany@enron.com <b>...</b> Sounds good to me. I bet this <b>is</b> next to the Warick??
Hotel. <b>...</b> place.? What do you think about going <b>here</b> Christmas
eve?? They have an 11:00 a.m. <b>...</b>}}

do_test fts1c-4.7 {
execsql {
  SELECT snippet(email) FROM email
  WHERE email MATCH "'pursuant to'"
}
} {{Erin:

<b>Pursuant</b> <b>to</b> your request, attached are the Schedule to <b>...</b>}}

do_test fts1c-4.8 {
execsql {
  SELECT snippet(email) FROM email
  WHERE email MATCH 'ancillary load davis'
}
}

```

} {{pete.davis@enron.com ... Start Date: 4/22/01; HourAhead hour: 3; No ancillary
schedules awarded.
Variances detected.
Variances detected in Load schedule.

LOG MESSAGES:

PARSING ...}}

Combinations of AND and OR operators:

#

do_test fts1c-5.1 {

execsql {

SELECT snippet(email) FROM email

WHERE email MATCH 'questar enron OR com'

}

} {{matt.smith@enron.com ... six reports:

31 Keystone Receipts

15 Questar Pipeline

40 Rockies Production

22 West_2 ...}}

do_test fts1c-5.2 {

execsql {

SELECT snippet(email) FROM email

WHERE email MATCH 'enron OR com questar'

}

} {{matt.smith@enron.com ... six reports:

31 Keystone Receipts

15 Questar Pipeline

40 Rockies Production

22 West_2 ...}}

finish_test

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-
archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNIVkuI7/sqlite-src-3071700/test/fts1c.test

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

Copyright 1997-2006 Adobe Systems Incorporated. All Rights Reserved.

Copyright 1987-2006 Adobe Systems Incorporated.

Copyright 1987-2004 Adobe Systems Incorporated.

Copyright 1987-2001 Adobe Systems Incorporated.

Found in path(s):

* %%Copyright

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

```
%%Copyright: Copyright(C)2000-2006 Adobe Systems, Inc. All Rights Reserved.  
%%Copyright: Copyright(C)1997-2007 Adobe Systems, Inc. All Rights Reserved.  
%%BeginResource: procset Adobe_CoolType_Core 2.31 0
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-  
archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNIVkuI7/sqlite-src-3071700/art/sqlite370.eps  
No license file was found, but licenses were detected in source scan.
```

SQLite is open source, and is available in the public domain

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-  
archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/books.html  
No license file was found, but licenses were detected in source scan.
```

application code is free to use these routines as well, if desired.

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-  
archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/34to35.html  
No license file was found, but licenses were detected in source scan.
```

MMFauxFont.prc

Found in path(s):

```
* %%BeginFile  
No license file was found, but licenses were detected in source scan.
```

<html>

<body bgcolor="white">

<p>FOR IMMEDIATE RELEASE:</p>

<h2 align="center">SQLite Consortium Launches With Mozilla And Symbian As Charter Members</h2>

<h3 align="center">Ensures independent technical direction for world's
most deployed SQL database engine</h3>

<p>Charlotte, North Carolina - December 12, 2007 - The SQLite Consortium,
a new membership association dedicated to maintaining SQLite as a fully open
and independent product, was formally announced today. Mozilla and Symbian Ltd.
have joined the SQLite Consortium as charter members.</p>

<p>SQLite is a compact, high efficiency, high reliability, embeddable SQL database
engine. The source code to SQLite is in the public domain and is available with

no associated fees. SQLite is the most deployed SQL database engine in the world and is currently used in a wide range of commercial software products and electronic devices from leading manufacturers. SQLite is found today in many mobile phones, MP3 players, set-top boxes, and PCs.

The mission of the SQLite Consortium is to continue developing and enhancing SQLite as a product that anyone may use without paying royalties or licensing fees. Members of the SQLite Consortium provide funding to enable this mission and in return receive enterprise-level technical support. Technical control and direction of SQLite remains entirely with the SQLite developers.

Mozilla, developer of the popular open-source Firefox web browser, and Symbian, the market-leading open operating system for advanced data-enabled smartphones, both deploy the SQLite database engine in their products. As charter members of the Consortium, Mozilla and Symbian are ensuring the development and support of SQLite as a freely accessible and public domain software asset.

"SQLite has become a popular embedded database because it is lightweight, fast, and open source," said Michael Schroepfer, Vice President of Engineering, Mozilla. "As a charter member of the SQLite Consortium, Mozilla is excited to help ensure SQLite remains a vibrant and open technology, in line with our mission to promote choice and innovation on the Internet."

"The SQLite Consortium will help set the standards for database management which are essential in smartphone functionality and will also help create a pool of developers, highly-skilled in SQLite for future mobile phone development," said Bruce Carney, Director, Developer Programmes & Services, Symbian. "Our involvement with the SQL Consortium not only demonstrates Symbian's commitment to open standards in the industry, but as mobile phones become increasingly powerful and smartphones become increasingly popular, we are focused on ensuring that desktop developers, who move to the mobile space, have the easiest and most productive experience possible."

SQLite is a winner of the 2005 Google/O'Reilly Open Source Award. Additional information regarding the SQLite Consortium is available at the SQLite website, <http://www.sqlite.org/>.

###

About SQLite

SQLite is a software library that implements a self-contained, embeddable, serverless, zero-configuration, transactional SQL database engine. The code for SQLite is in the public domain and is free for any use, commercial or private. SQLite is currently found in countless software titles and electronic devices.

<p>SQLite was originally developed and released 2000 by Dr. D. Richard Hipp. The code continues to be maintained and enhanced by an international team of developers under Hipp's direction.</p>

<p>
CONTACT INFORMATION:

SQLite Consortium

Dr. D. Richard Hipp

6200 Maple Cove Lane

Charlotte, NC 28269

Email: drh@sqlite.org

<http://www.sqlite.org/>

Tel: +1.704.948.4565
</p>

<p>About Mozilla</p>

<p>Mozilla is a global community dedicated to building free, open source products and technologies that improve the online experience for people everywhere. Mozilla works in the open with a highly disciplined, transparent and cooperative development process, under the umbrella of the non-profit Mozilla Foundation. As a wholly owned subsidiary, the Mozilla Corporation organizes the development and marketing of Mozilla products. This unique structure has enabled Mozilla to financially support and cultivate competitive, viable community innovation. For more information, visit www.mozilla.com.</p>

<p>CONTACT INFORMATION:

Mozilla Corporation

Jessica Waight

Tel: +1.415.345.4754

Email: jwaight@outcastpr.com
</p>

<p>About Symbian Limited</p>

<p>Symbian is a software licensing company that develops and licenses Symbian OS, the market-leading open operating system for advanced, data-enabled mobile phones known as smartphones.</p>

<p>Symbian licenses Symbian OS to the world's leading handset manufacturers and has built close co-operative business relationships with leading companies across the mobile industry. During Q3 2007, 20.4 million Symbian smartphones were sold worldwide to over 250 major network operators, bringing the total number of Symbian smartphones shipped up to 30 September 2007 to 165 million.</p>

<p>Symbian has its headquarters in London, United Kingdom, with offices in the

United States, United Kingdom, Asia (India, P.R. China, and Korea) and Japan.

For more information, please visit www.symbian.com.

<p>CONTACT INFORMATION:

Symbian Global Press Office

Karen Hamblen

+44 207 154 1707

press@symbian.com

</p>

</body></html>

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/pressrelease-20071212.html

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

<dd><p>The psow query parameter works with the default windows and unix VFSes but might be a no-op for other proprietary or non-standard VFSes.

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/requirements.html

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

SQLite core and like the SQLite core are in the public domain. The

The TH3 test harness is a set of proprietary tests, written in

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/testing.html

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

/*

** Return a pointer to the "temporary page" buffer held internally
** by the pager. This is a buffer that is big enough to hold the
** entire content of a database page. This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs. But other modules are free to use it too, as long as
** no rollbacks are happening.

*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNIVkuI7/sqlite-src-3071700/src/pager.c

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

application is free to use the same database connection or the

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-  
archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-  
3071700/c3ref/c_config_covering_index_scan.html
```

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

```
/*
```

```
** The "printf" code that follows dates from the 1980's. It is in  
** the public domain. The original comments are included here for  
** completeness. They are very out-of-date but might be useful as  
** an historical reference. Most of the "enhancements" have been backed  
** out so that the functionality is now the same as standard printf().  
**
```

```
*****
```

```
**
```

```
** This file contains code for a set of "printf"-like routines. These  
** routines format strings much like the printf() from the standard C  
** library, though the implementation here has enhancements to support  
** SQLite.
```

```
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-  
archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNIVkuI7/sqlite-src-3071700/src/printf.c
```

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

other proprietary or non-standard VFSeS.

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-  
archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/uri.html
```

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

```
<html>
```

```
<head>
```

```
<title>SQLite Consortium Agreement</title>
```

```
</head>
```

```
<body bgcolor="white">
```

```
<h1 align="center">
```

```
SQLite Consortium Agreement
```

```
</h1>
```

```
<p>This SQLite Consortium Agreement ("Agreement") is made and  
entered into as of the ____ day of _____, 2007 ("Effective Date")  
by and between _____ (the "Company"), and  
Hipp, Wyrick & Company, Inc., a Georgia Corporation with  
headquarters at 6200 Maple Cove Lane, Charlotte, NC ("Hwaci").</p>
```

<p>WHEREAS, Hwaci is the developer of a serverless, embeddable, public domain SQL database engine available at http://www.sqlite.org/ ("SQLite"); and</p>

<p>WHEREAS, Company wishes to support the independent development of the SQLite database engine to insure the continuing reliability, vitality, and independence of SQLite, and in connection therewith, Company wishes to provide funds for ongoing research, development, and maintenance of the SQLite code base, operation of the SQLite website, protection and maintenance of the SQLite trademark, as well as for promotion of SQLite at conferences and trade shows; and</p>

<p>WHEREAS, Company wishes to receive benefits in the form of services from Hwaci in consideration for their support of SQLite; and

<p>WHEREAS, Company and Hwaci each wish SQLite to be supported and maintained as an independent, community-driven project, and to ensure the SQLite development team remains independent.</p>

<p>NOW, THEREFORE, in consideration of the mutual promises contained herein, the parties agree as follows:</p>

<h2>1.0 Definitions</h2>

<h3>1.1 SQLite Developers</h3>

<p>The "SQLite Developers" are the employees or contractors of Hwaci engaged in the development of SQLite, including without limitation the SQLite Architect.</p>

<h3>1.2 SQLite Architect</h3>

<p>The "SQLite Architect" is the SQLite Developer with ultimate responsibility and authority over changes and maintenance of the SQLite code. The current SQLite Architect is the original designer and developer of SQLite, D. Richard Hipp. Hwaci may change the SQLite Architect from time to time upon approval by Company.</p>

<h3>1.3 Consortium Member</h3>

<p>A "Consortium Member" is a company or organization, including but not limited to Company, which has entered into an agreement with Hwaci which is substantially similar to this Agreement.</p></p>

<h2>2.0 Agreement</h2>

<h3>2.1 Responsibilities And Obligations Of SQLite Developers</h3>

<h4>2.1.1 General Support</h4>

<p>The SQLite Developers shall provide, without limit, timely and accurate answers, advice, and instruction in response to questions and comments from Company about SQLite submitted by email or by telephone at any time day or night.</p>

<h4>2.1.2 Debugging Support</h4>

The SQLite Developers shall at Company's request provide Company with direct assistance in debugging applications that are built upon or use SQLite. The combined time for Debugging Support and Custom Development for Company is limited to 330 hours per year.</p>

<h4>2.1.3 Custom Development</h4>

<p>The SQLite Developers shall at the request of Company write new extensions or enhancements to SQLite according to Company's specifications. These extensions and enhancements may be proprietary to Company or open source or with the consent of both Company and the SQLite Architect may be folded into the public domain SQLite source tree. The time devoted to Custom Development for Company is limited 220 hours per year.</p>

<h4>2.1.4 Custom Builds</h4>

The SQLite Developers shall at Company's request provide Company with specialized builds of SQLite according to Company's specifications.</p>

<h4>2.1.5 Legacy Support</h4>

<p>The SQLite Developers shall at Company's request provide support and bug-fix patches for any historical version of SQLite.</p>

<h4>2.1.6 Custom Testing</h4>

<p>The SQLite Developers shall at Company's request set up and run acceptance tests according Company's specifications that are specifically designed to exercise SQLite as configured and used by Company. These acceptance tests shall be run and shall pass prior to any release of SQLite.</p>

<h4>2.1.7 Priority Bug Fixes</h4>

<p>The SQLite Developers shall assign highest priority to fixing bugs in SQLite that are reported by Company or in which Company has

expressed a specific interest.

</p>

<h4>2.1.8 Code Quality</h4>

<p>The SQLite Developers shall at all times keep the SQLite source code well commented and documented and clearly structured and organized so that an experienced and competent programmer can understand it and support it after no more than a few months of study.

</p>

<h4>2.1.9 Backwards Compatibility</h4>

<p>The SQLite Developers recognize that Company uses SQLite in mission-critical applications and therefore shall work diligently to ensure continuing bug-free correct operation and backwards compatibility with prior releases.

</p>

<h4>2.1.10 Test Coverage</h4>

<p>The SQLite Developers shall maintain the SQLite test suite such that no less than 95% source code coverage is provided.

</p>

<h4>2.1.11 Website</h4>

<p>The SQLite Developers shall maintain the SQLite website at http://www.sqlite.org in good working order and all SQLite source code shall be made freely available at such website.

</p>

<h3>2.2 Responsibilities And Obligations Of The SQLite Architect</h3>

<h4>2.2.1 Private Briefings</h4>

<p>The SQLite Architect shall, at the request of Company, provide Company with private notification and briefings of any new bugs or new features in SQLite that might effect Company's products.

</p>

<h4>2.2.2 Direction</h4>

<p>The SQLite Architect shall coordinate the activities of SQLite Developers and shall publish from time to time a roadmap of proposed future changes and enhancements to SQLite.

</p>

<h4>2.2.3 Oversight</h4>

<p>The SQLite Architect shall personally review all changes to the SQLite Source Code and take responsibility for the quality

and correctness of those changes.

</p>

<h4>2.2.4 Continuity</h4>

<p>The initial SQLite Architect shall be the original developer of SQLite, D. Richard Hipp. The role of SQLite Architect shall not be assigned to another during the term of this Agreement except due to the disability of Dr. Hipp and with approval of Company.

</p>

<h3>2.3 Responsibilities And Obligations Of Hwaci</h3>

<h4>2.3.1 Employer</h4>

<p>Hwaci shall act as the employer of the SQLite Developers and SQLite Architect and shall make all tax and legal filings and tax withholding required by employers. Hwaci shall provide Company with W-9 information upon request.

</p>

<h4>2.3.2 Responsible Party</h4>

<p>All obligations of the SQLite Developers set forth in this agreement are deemed obligations of Hwaci. Hwaci shall recruit, employ, and supervise SQLite Developers in such a way that the responsibilities and obligations of the SQLite Developers set forth in this agreement are upheld.</p>

<h4>2.3.3 Multiple Developers</h4>

<p>Hwaci shall recruit and employ as many SQLite Developers for as many hours as can be reasonably achieved using the funds received from Consortium Members under this agreement.

So that support for SQLite will not be interrupted by the disability or withdrawal of any one SQLite Developer, Hwaci will keep at least two knowledgeable and competent SQLite Developers on staff.</p>

<h4>2.3.4 Mentorship</h4>

<p>Hwaci shall work to encourage independent programmers from around the world to become familiar with SQLite internals so that there will be a pool of talent able to support SQLite in the future.

</p>

<h4>2.3.5 Audits</h4>

<p>Hwaci shall keep and maintain complete and accurate records of the use of development funds provided by Company and shall allow Company, or its representative, a certified public accountant mutually acceptable to Hwaci and Company, during office hours and at reasonable intervals, no more than

once every 12 months, to inspect and make extracts or copies of such records solely for the purpose of ascertaining Hwaci's compliance with the objectives and requirements of this agreement.

</p>

<h4>2.3.6 Disaster Planning</h4>

<p>Hwaci shall maintain backup copies of all SQLite source files and documentation, current and historical, at at least two separate locations separated from each other and from the primary on-line SQLite repository by at least 400 kilometers.

</p>

<h4>2.3.7 Trademark</h4>

<p>Hwaci shall maintain ownership of the SQLite trademark and the sqlite.org domain name and shall purchase bandwidth and server space for the http://www.sqlite.org/ website.

</p>

<h4>2.3.8 No Take-overs or Buy-outs</h4>

<p>Neither Hwaci nor the SQLite Architect shall relinquish development control of SQLite during the term of this Agreement, by acquisition or merger or by any other means, except with the consent of Company.

</p>

<h4>2.3.9 New Consortium Members</h4>

<p>New Consortium Members may be accepted into the consortium from time to time under identical terms as this agreement, or under substantially similar terms that have been approved by existing Consortium Members.</p>

<h4>2.3.10 Adequate Staff</h4>

Hwaci shall recruit and employ a sufficient number of qualified SQLite Developers to easily cover all custom development, debugging, and general support service obligations for all Consortium Members while still providing ample time for the SQLite Developers to engage in general maintenance and extension of SQLite.

</p>

<h4>2.3.11 Use Of Funds</h4>

<p>Hwaci shall use the funds provided hereunder solely for the development and maintenance of SQLite as set forth in this Agreement.

Interest on funds received in advance and held in trust will be reinvested and used for the same purposes as the principal.

</p>

<h3>2.4 Responsibilities And Obligations Of Company</h3>

<h4>2.4.1 Funding</h4>

<p>Company shall provide funding for the ongoing support and maintenance of SQLite as set forth in section 3.0 "Fees".

</p>

<h4>2.4.2 Copyright Disclaimer</h4>

<p>Company acknowledges that SQLite source code and documentation published on the SQLite website is in the public domain and that nothing in this agreement shall change that fact.

</p>

<h2>3.0 Fees</h2>

<p>In consideration of the performance by Hwaci, the SQLite Developers, and the SQLite Architect of the obligations described herein, Company shall pay Hwaci at least US \$75,000 per year in advance either annually, quarterly, or monthly, at Company's discretion.</p>

<h2>4.0 Confidentiality</h2>

<h3>4.1 Definition of Confidential Information</h3>

<p>"Confidential Information" means any Company proprietary information, technical data, trade secrets or know-how, including, but not limited to, research, product plans, products, services, customers, customer lists, markets, software, developments, inventions, processes, formulas, technology, designs, drawings, engineering, hardware configuration information, marketing, finances or other business information disclosed by Company either directly or indirectly in writing, orally or by drawings or inspection of parts or equipment.</p>

<h3>4.2 Non-Use and Non-Disclosure.</h3>

<p>Hwaci shall not, during or subsequent to the term of this Agreement, use Company's Confidential Information for any purpose whatsoever other than the performance of the Services or disclose Company's Confidential Information to any third party. The parties acknowledge that Confidential Information will remain the sole property of Company. Hwaci shall take all reasonable precautions to prevent any unauthorized disclosure of Confidential Information including, but not limited to, having each employee or consultant of Hwaci, if any, with access to any

Confidential Information, execute a nondisclosure agreement containing provisions in Company's favor substantially similar to this Agreement. Confidential Information does not include information that: (i) is known to Hwaci at the time of disclosure to Hwaci by Company as evidenced by written records of Hwaci; (ii) has become publicly known and made generally available through no wrongful act of Hwaci; or (iii) has been received by Hwaci from a third party who is authorized to make such disclosure.</p>

<h4>4.2.1 Disclosure Required by Law</h4>

In the event any Confidential Information is required to be disclosed by Hwaci under the terms of a valid and effective subpoena or order issued by a court of competent jurisdiction, or by a demand or information request from an executive or administrative agency or other governmental authority, Hwaci shall, unless prohibited by the terms of a subpoena, order, or demand, promptly notify Company of the existence, terms and circumstances surrounding such demand or request, shall consult with Company on the advisability of taking legally available steps to resist or narrow such demand or request, and, if disclosure of such Confidential Information is required, shall exercise its reasonable best efforts to narrow the scope of disclosure and obtain an order or other reliable assurance that confidential treatment will be accorded to such Confidential Information. To the extent that Hwaci is prohibited from notifying Company of a subpoena, order or demand, by the terms of same, Hwaci shall exercise its reasonable efforts to narrow the scope of disclosure.</p>

<h3>4.3 Return of Materials.</h3>

<p>Upon the termination of this Agreement, or upon Company's earlier request, Hwaci shall deliver to Company all of Company's property or Confidential Information that Hwaci may have in Hwaci's possession or control.</p>

<h2>5.0 Intellectual Property</h2>

<h3>5.1 No Assignment</h3>

<p>Company acknowledges that all copyrightable material, notes, records, drawings, designs, inventions, improvements, developments, discoveries and trade secrets made, generated, conceived, or reduced to practice by Hwaci related to SQLite will remain the property of Hwaci. Nothing in this Agreement will be construed to transfer any intellectual property right of Hwaci to Company.</p>

<h3>5.2 Availability and Public Domain Dedication</h3>

<p>The SQLite Developers and Hwaci shall, subject to their discretion as to the quality and suitability of the SQLite source code and documentation for public release, make the SQLite source code and documentation publicly available as downloadable files and make a public statement ceding all intellectual property rights, including but not limited to copyright and patent rights, in the SQLite source code and documentation to the public domain.

To the extent that the SQLite Developers and Hwaci elect not to release the SQLite source code and documentation publicly, they shall provide copies thereof to Company and hereby grants to Company, under all of the SQLite Developers' and Hwaci's rights including but not limited to copyright and patent rights, in and to the SQLite source code and documentation, perpetual, irrevocable, worldwide, non-exclusive, sublicenseable license to use, copy, prepare derivative works of, publicly perform and display the SQLite source code and documentation and derivative works thereof.</p>

<h3>5.3 Trademark</h3>

<p>Hwaci shall use the name "SQLite" only to apply to the publicly available project known by such name as of the Effective Date. Hwaci may in its discretion file such trademark applications or registrations as it deems appropriate to protect or record its rights therein, and may set such policies as it deems appropriate for licensing the use of the trademark.</p>

<h2>6.0 Representations And Warranties</h3>

<h3>6.1 Intellectual Property Clearances.</h3>

<p>Hwaci hereby represents and warrants that Hwaci shall enter into agreements with the SQLite Developers sufficient to enable Hwaci to undertake the obligations of Section 5.</p>

<h3>6.2 Disclaimer.</h3>

<p>THE WORK PRODUCT AND ALL MATERIAL PROVIDED BY HWACI AND COMPANY ARE PROVIDED "AS IS." NEITHER PARTY MAKES ANY REPRESENTATIONS OR WARRANTIES OF ANY KIND, WHETHER ORAL OR WRITTEN, WHETHER EXPRESS, IMPLIED, OR ARISING BY STATUTE, CUSTOM, COURSE OF DEALING OR TRADE USAGE, WITH RESPECT TO THE SUBJECT MATTER HEREOF, IN CONNECTION WITH THIS AGREEMENT. EACH PARTY SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OR CONDITIONS OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT.</p>

<h2>7.0 Term And Termination</h2>

<h3>7.1 Term.</h3>

<p>This Agreement will commence on the Effective Date and will continue until 12 months after the Effective Date. Thereafter, the parties may by mutual consent renew this Agreement subject to agreement on fees to be paid by Company for sponsorship for additional periods.</p>

<h3>7.2 Termination.</h3>

<p>If either party materially defaults in the performance of any of its material obligations hereunder and if any such default is not corrected within 30 days after notice in writing, then the non-defaulting party, at its option, may, in addition to any other remedies it may have, thereupon terminate this Agreement by giving written notice of termination to the defaulting party.</p>

<h3>7.3 Survival.</h3>

<p>Upon such termination all rights and duties of the parties toward each other will cease except: Sections 4 (Confidentiality), 5 (Intellectual Property), and 8 (Miscellaneous) will survive termination of this Agreement.</p>

<h2>8. Miscellaneous</h2>

<h3>8.1 Nonassignment/Binding Agreement.</h3>

<p>The parties acknowledge that the unique nature of Hwaci's services are substantial consideration for the parties' entering into this Agreement. Neither this Agreement nor any rights under this Agreement may be assigned or otherwise transferred by Hwaci, in whole or in part, whether voluntarily or by operation of law, without the prior written consent of Company, which

consent will not be unreasonably withheld.

Subject to the foregoing, this Agreement will be binding upon and will inure to the benefit of the parties and their respective successors and assigns. Any assignment in violation of the foregoing will be null and void.</p>

<h3>8.2 Notices.</h3>

<p>Any notice required or permitted under the terms of this Agreement or required by law must be in writing and must be: (a) delivered in person; (b) sent by first class registered mail, or air mail, as appropriate; or (c) sent by overnight air courier, in each case properly posted and fully prepaid to the appropriate address set forth in the preamble to this Agreement. Either party may change its address for notice by notice to the other party given in accordance with this Section. Notices will be considered to have been given at the time of actual delivery in person, three business days after deposit in the mail as set forth above, or one day after delivery to an overnight air courier service.</p>

<h3>8.3 Waiver.</h3>

<p>Any waiver of the provisions of this Agreement or of a party's rights or remedies under this Agreement must be in writing to be effective. Failure, neglect, or delay by a party to enforce the provisions of this Agreement or its rights or remedies at any time, will not be construed as a waiver of such party's rights under this Agreement and will not in any way affect the validity of the whole or any part of this Agreement or prejudice such party's right to take subsequent action. No exercise or enforcement by either party of any right or remedy under this Agreement will preclude the enforcement by such party of any other right or remedy under this Agreement or that such party is entitled by law to enforce.</p>

<h3>8.4 Severability.</h3>

<p>If any term, condition, or provision in this Agreement is found to be invalid, unlawful or unenforceable to any extent, the parties shall endeavor in good faith to agree to such amendments that will preserve, as far as possible, the intentions expressed in this Agreement. If the parties fail to agree on such an amendment, such invalid term, condition or provision will be

severed from the remaining terms, conditions and provisions, which will continue to be valid and enforceable to the fullest extent permitted by law.</p>

<h3>8.5 Integration.</h3>

<p>This Agreement contains the entire agreement of the parties with respect to the subject matter of this Agreement and supersedes all previous communications, representations, understandings and agreements, either oral or written, between the parties with respect to said subject matter. This Agreement may not be amended, except by a writing signed by both parties.</p>

<h3>8.6 Counterparts.</h3>

<p>This Agreement may be executed in counterparts, each of which so executed will be deemed to be an original and such counterparts together will constitute one and the same agreement.</p>

<h3>8.7 Governing Law.</h3>

<p>This Agreement will be interpreted and construed in accordance with the laws of the State of North Carolina and the United States of America, without regard to conflict of law principles. All disputes arising out of this Agreement will be subject to the exclusive jurisdiction of the state and federal courts located in North Carolina, and each party hereby consents to the personal jurisdiction thereof.</p>

<h3>8.8 Independent Contractors.</h3>

<p>It is the intention of the parties that Hwaci is an independent contractor. Nothing in this Agreement will in any way be construed to constitute Hwaci or any of its employees as an agent, employee or representative of Company.</p>

<h2>9.0 Signatures</h2>

<p>The parties have executed this Agreement below to indicate their acceptance of its terms.</p>

<table width="100%" border="0">

<tr><td valign="top">

HWACI

By:<hr>
<p> </p>
Print Name:<hr>
<p> </p>
Title:<hr>
<p> </p>
</td><td width="10%"></td>
<td valign="top">
COMPANY

By:<hr>
<p> </p>
Print Name:<hr>
<p> </p>
Title:<hr>
<p> </p>
</td></tr></table>

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/consortium_agreement-20071201.html

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

/*

** 2004 May 22

**

** The author disclaims copyright to this source code. In place of
** a legal notice, here is a blessing:

**

** May you do good and not evil.

** May you find forgiveness for yourself and forgive others.

** May you share freely, never taking more than you give.

**

**

** This file contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.

**

** There are actually several different VFS implementations in this file.
** The differences are in the way that file locking is done. The default
** implementation uses Posix Advisory Locks. Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.

**

** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division. PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT. New code should be placed
** in the correct division and should be clearly labeled.

```

**
** The layout of divisions is as follows:
**
** * General-purpose declarations and utility functions.
** * Unique file ID logic used by VxWorks.
** * Various locking primitive implementations (all except proxy locking):
**   + for Posix Advisory Locks
**   + for no-op locks
**   + for dot-file locks
**   + for flock() locking
**   + for named semaphore locks (VxWorks only)
**   + for AFP filesystem locks (MacOSX only)
** * sqlite3_file methods not associated with locking.
** * Definitions of sqlite3_io_methods objects for all locking
**   methods plus "finder" functions for each locking method.
** * sqlite3_vfs method implementations.
** * Locking primitives for the proxy uber-locking-method. (MacOSX only)
** * Definitions of sqlite3_vfs objects for all locking methods
**   plus implementations of sqlite3_os_init() and sqlite3_os_end().
**/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-
archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNIVkuI7/sqlite-src-3071700/src/os_unix.c
No license file was found, but licenses were detected in source scan.

```

```

/*
* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was
* written by Colin Plumb in 1993, no copyright is claimed.
* This code is in the public domain; do with it what you wish.
*
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.
*
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-
archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNIVkuI7/sqlite-src-3071700/src/tclsqlite.c
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-
archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNIVkuI7/sqlite-src-3071700/test/threadtest3.c

```

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

2.31 0
1.23 0
1.0 0

Found in path(s):

* %% Version

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

<p>Public domain</p>

The source code for SQLite is in the public domain. No claim of copyright

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/different.html

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

Public Domain

public domain

the public domain and originals of

author, and all of those authors have public domain dedications

Even though SQLite is in the public domain and does not require

the public domain.

their contributions to the public domain.

in this code to the public domain. We make this dedication for the benefit

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/copyright.html

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

2001 September 15

#

The author disclaims copyright to this source code. In place of

a legal notice, here is a blessing:

#

May you do good and not evil.

May you find forgiveness for yourself and forgive others.

May you share freely, never taking more than you give.

#

This file implements regression tests for SQLite library. The

focus of this file is testing built-in functions.

#

set testdir [file dirname \$argv0]

source \$testdir/tester.tcl

```

# Create a table to work with.
#
do_test func-0.0 {
  execsql {CREATE TABLE tbl1(t1 text)}
  foreach word {this program is free software} {
    execsql "INSERT INTO tbl1 VALUES('$word')"
  }
  execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} {free is program software this}
do_test func-0.1 {
  execsql {
    CREATE TABLE t2(a);
    INSERT INTO t2 VALUES(1);
    INSERT INTO t2 VALUES(NULL);
    INSERT INTO t2 VALUES(345);
    INSERT INTO t2 VALUES(NULL);
    INSERT INTO t2 VALUES(67890);
    SELECT * FROM t2;
  }
} {1 {} 345 {} 67890}

# Check out the length() function
#
do_test func-1.0 {
  execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {4 2 7 8 4}
do_test func-1.1 {
  set r [catch {execsql {SELECT length(*) FROM tbl1 ORDER BY t1}} msg]
  lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.2 {
  set r [catch {execsql {SELECT length(t1,5) FROM tbl1 ORDER BY t1}} msg]
  lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.3 {
  execsql {SELECT length(t1), count(*) FROM tbl1 GROUP BY length(t1)
          ORDER BY length(t1)}
} {2 1 4 2 7 1 8 1}
do_test func-1.4 {
  execsql {SELECT coalesce(length(a),-1) FROM t2}
} {1 -1 3 -1 5}

# Check out the substr() function
#
do_test func-2.0 {
  execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {fr is pr so th}

```



```

do_test func-2.1 {
    execsql {SELECT substr(t1,2,1) FROM tbl1 ORDER BY t1}
} {r s r o h}
do_test func-2.2 {
    execsql {SELECT substr(t1,3,3) FROM tbl1 ORDER BY t1}
} {ee {} ogr ftw is}
do_test func-2.3 {
    execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} {e s m e s}
do_test func-2.4 {
    execsql {SELECT substr(t1,-1,2) FROM tbl1 ORDER BY t1}
} {e s m e s}
do_test func-2.5 {
    execsql {SELECT substr(t1,-2,1) FROM tbl1 ORDER BY t1}
} {e i a r i}
do_test func-2.6 {
    execsql {SELECT substr(t1,-2,2) FROM tbl1 ORDER BY t1}
} {ee is am re is}
do_test func-2.7 {
    execsql {SELECT substr(t1,-4,2) FROM tbl1 ORDER BY t1}
} {fr {} gr wa th}
do_test func-2.8 {
    execsql {SELECT t1 FROM tbl1 ORDER BY substr(t1,2,20)}
} {this software free program is}
do_test func-2.9 {
    execsql {SELECT substr(a,1,1) FROM t2}
} {1 {} 3 {} 6}
do_test func-2.10 {
    execsql {SELECT substr(a,2,2) FROM t2}
} {{} {} 45 {} 78}

```

Only do the following tests if TCL has UTF-8 capabilities

#

```
if {"\u1234"!="u1234"} {
```

Put some UTF-8 characters in the database

#

```

do_test func-3.0 {
    execsql {DELETE FROM tbl1}
    foreach word "contains UTF-8 characters hi\u1234ho" {
        execsql "INSERT INTO tbl1 VALUES('$word')"
    }
    execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} "UTF-8 characters contains hi\u1234ho"
do_test func-3.1 {
    execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {5 10 8 5}
do_test func-3.2 {

```

```

execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {UT ch co hi}
do_test func-3.3 {
execsql {SELECT substr(t1,1,3) FROM tbl1 ORDER BY t1}
} "UTF cha con hi\u1234"
do_test func-3.4 {
execsql {SELECT substr(t1,2,2) FROM tbl1 ORDER BY t1}
} "TF ha on i\u1234"
do_test func-3.5 {
execsql {SELECT substr(t1,2,3) FROM tbl1 ORDER BY t1}
} "TF- har ont i\u1234h"
do_test func-3.6 {
execsql {SELECT substr(t1,3,2) FROM tbl1 ORDER BY t1}
} "F- ar nt \u1234h"
do_test func-3.7 {
execsql {SELECT substr(t1,4,2) FROM tbl1 ORDER BY t1}
} "-8 ra ta ho"
do_test func-3.8 {
execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} "8 s s o"
do_test func-3.9 {
execsql {SELECT substr(t1,-3,2) FROM tbl1 ORDER BY t1}
} "F- er in \u1234h"
do_test func-3.10 {
execsql {SELECT substr(t1,-4,3) FROM tbl1 ORDER BY t1}
} "TF- ter ain i\u1234h"
do_test func-3.99 {
execsql {DELETE FROM tbl1}
foreach word {this program is free software} {
execsql "INSERT INTO tbl1 VALUES('$word')"
}
execsql {SELECT t1 FROM tbl1}
} {this program is free software}

} ;# End \u1234!=u1234

# Test the abs() and round() functions.
#
ifcapable !floatingpoint {
do_test func-4.1 {
execsql {
CREATE TABLE t1(a,b,c);
INSERT INTO t1 VALUES(1,2,3);
INSERT INTO t1 VALUES(2,12345678901234,-1234567890);
INSERT INTO t1 VALUES(3,-2,-5);
}
catchsql {SELECT abs(a,b) FROM t1}
} {1 {wrong number of arguments to function abs()}}

```

```

}
ifcapable floatingpoint {
do_test func-4.1 {
execsql {
CREATE TABLE t1(a,b,c);
INSERT INTO t1 VALUES(1,2,3);
INSERT INTO t1 VALUES(2,1.2345678901234,-12345.67890);
INSERT INTO t1 VALUES(3,-2,-5);
}
catchsql {SELECT abs(a,b) FROM t1}
} {1 {wrong number of arguments to function abs()}}
}
do_test func-4.2 {
catchsql {SELECT abs() FROM t1}
} {1 {wrong number of arguments to function abs()}}
ifcapable floatingpoint {
do_test func-4.3 {
catchsql {SELECT abs(b) FROM t1 ORDER BY a}
} {0 {2 1.2345678901234 2}}
do_test func-4.4 {
catchsql {SELECT abs(c) FROM t1 ORDER BY a}
} {0 {3 12345.6789 5}}
}
ifcapable !floatingpoint {
if {[working_64bit_int]} {
do_test func-4.3 {
catchsql {SELECT abs(b) FROM t1 ORDER BY a}
} {0 {2 12345678901234 2}}
}
do_test func-4.4 {
catchsql {SELECT abs(c) FROM t1 ORDER BY a}
} {0 {3 1234567890 5}}
}
do_test func-4.4.1 {
execsql {SELECT abs(a) FROM t2}
} {1 {} 345 {} 67890}
do_test func-4.4.2 {
execsql {SELECT abs(t1) FROM tbl1}
} {0.0 0.0 0.0 0.0 0.0}

ifcapable floatingpoint {
do_test func-4.5 {
catchsql {SELECT round(a,b,c) FROM t1}
} {1 {wrong number of arguments to function round()}}
do_test func-4.6 {
catchsql {SELECT round(b,2) FROM t1 ORDER BY b}
} {0 {-2.0 1.23 2.0}}
do_test func-4.7 {

```

```

catchsql {SELECT round(b,0) FROM t1 ORDER BY a}
} {0 {2.0 1.0 -2.0}}
do_test func-4.8 {
catchsql {SELECT round(c) FROM t1 ORDER BY a}
} {0 {3.0 -12346.0 -5.0}}
do_test func-4.9 {
catchsql {SELECT round(c,a) FROM t1 ORDER BY a}
} {0 {3.0 -12345.68 -5.0}}
do_test func-4.10 {
catchsql {SELECT 'x' || round(c,a) || 'y' FROM t1 ORDER BY a}
} {0 {x3.0y x-12345.68y x-5.0y}}
do_test func-4.11 {
catchsql {SELECT round() FROM t1 ORDER BY a}
} {1 {wrong number of arguments to function round()}}
do_test func-4.12 {
execsql {SELECT coalesce(round(a,2),'nil') FROM t2}
} {1.0 nil 345.0 nil 67890.0}
do_test func-4.13 {
execsql {SELECT round(t1,2) FROM tb1}
} {0.0 0.0 0.0 0.0 0.0}
do_test func-4.14 {
execsql {SELECT typeof(round(5.1,1));}
} {real}
do_test func-4.15 {
execsql {SELECT typeof(round(5.1));}
} {real}
do_test func-4.16 {
catchsql {SELECT round(b,2.0) FROM t1 ORDER BY b}
} {0 {-2.0 1.23 2.0}}
# Verify some values reported on the mailing list.
# Some of these fail on MSVC builds with 64-bit
# long doubles, but not on GCC builds with 80-bit
# long doubles.
for {set i 1} {$i<999} {incr i} {
set x1 [expr 40222.5 + $i]
set x2 [expr 40223.0 + $i]
do_test func-4.17.$i {
execsql {SELECT round($x1);}
} $x2
}
for {set i 1} {$i<999} {incr i} {
set x1 [expr 40222.05 + $i]
set x2 [expr 40222.10 + $i]
do_test func-4.18.$i {
execsql {SELECT round($x1,1);}
} $x2
}
do_test func-4.20 {

```

```

execsql {SELECT round(40223.4999999999);}
} {40223.0}
do_test func-4.21 {
  execsql {SELECT round(40224.4999999999);}
} {40224.0}
do_test func-4.22 {
  execsql {SELECT round(40225.4999999999);}
} {40225.0}
for {set i 1} {$i<10} {incr i} {
  do_test func-4.23.$i {
    execsql {SELECT round(40223.4999999999,$i);}
  } {40223.5}
  do_test func-4.24.$i {
    execsql {SELECT round(40224.4999999999,$i);}
  } {40224.5}
  do_test func-4.25.$i {
    execsql {SELECT round(40225.4999999999,$i);}
  } {40225.5}
}
for {set i 10} {$i<32} {incr i} {
  do_test func-4.26.$i {
    execsql {SELECT round(40223.4999999999,$i);}
  } {40223.4999999999}
  do_test func-4.27.$i {
    execsql {SELECT round(40224.4999999999,$i);}
  } {40224.4999999999}
  do_test func-4.28.$i {
    execsql {SELECT round(40225.4999999999,$i);}
  } {40225.4999999999}
}
do_test func-4.29 {
  execsql {SELECT round(1234567890.5);}
} {1234567891.0}
do_test func-4.30 {
  execsql {SELECT round(12345678901.5);}
} {12345678902.0}
do_test func-4.31 {
  execsql {SELECT round(123456789012.5);}
} {123456789013.0}
do_test func-4.32 {
  execsql {SELECT round(1234567890123.5);}
} {1234567890124.0}
do_test func-4.33 {
  execsql {SELECT round(12345678901234.5);}
} {12345678901235.0}
do_test func-4.34 {
  execsql {SELECT round(1234567890123.35,1);}
} {1234567890123.4}

```

```

do_test func-4.35 {
    execsql {SELECT round(1234567890123.445,2);}
} {1234567890123.45}
do_test func-4.36 {
    execsql {SELECT round(9999999999994.5);}
} {9999999999995.0}
do_test func-4.37 {
    execsql {SELECT round(999999999999.55,1);}
} {999999999999.6}
do_test func-4.38 {
    execsql {SELECT round(999999999999.556,2);}
} {999999999999.56}
}

# Test the upper() and lower() functions
#
do_test func-5.1 {
    execsql {SELECT upper(t1) FROM tbl1}
} {THIS PROGRAM IS FREE SOFTWARE}
do_test func-5.2 {
    execsql {SELECT lower(upper(t1)) FROM tbl1}
} {this program is free software}
do_test func-5.3 {
    execsql {SELECT upper(a), lower(a) FROM t2}
} {1 1 {} {} 345 345 {} {} 67890 67890}
ifcapable !icu {
    do_test func-5.4 {
        catchsql {SELECT upper(a,5) FROM t2}
    } {1 {wrong number of arguments to function upper()}}
}
do_test func-5.5 {
    catchsql {SELECT upper(*) FROM t2}
} {1 {wrong number of arguments to function upper()}}

# Test the coalesce() and nullif() functions
#
do_test func-6.1 {
    execsql {SELECT coalesce(a,'xyz') FROM t2}
} {1 xyz 345 xyz 67890}
do_test func-6.2 {
    execsql {SELECT coalesce(upper(a),'nil') FROM t2}
} {1 nil 345 nil 67890}
do_test func-6.3 {
    execsql {SELECT coalesce(nullif(1,1),'nil')}
} {nil}
do_test func-6.4 {
    execsql {SELECT coalesce(nullif(1,2),'nil')}
} {1}

```

```

do_test func-6.5 {
  execsql {SELECT coalesce(nullif(1,NULL),'nil')}
} {1}

# Test the last_insert_rowid() function
#
do_test func-7.1 {
  execsql {SELECT last_insert_rowid()}
} [db last_insert_rowid]

# Tests for aggregate functions and how they handle NULLs.
#
ifcapable floatingpoint {
  do_test func-8.1 {
    ifcapable explain {
      execsql {EXPLAIN SELECT sum(a) FROM t2;}
    }
    execsql {
      SELECT sum(a), count(a), round(avg(a),2), min(a), max(a), count(*) FROM t2;
    }
  } {68236 3 22745.33 1 67890 5}
}
ifcapable !floatingpoint {
  do_test func-8.1 {
    ifcapable explain {
      execsql {EXPLAIN SELECT sum(a) FROM t2;}
    }
    execsql {
      SELECT sum(a), count(a), avg(a), min(a), max(a), count(*) FROM t2;
    }
  } {68236 3 22745.0 1 67890 5}
}
do_test func-8.2 {
  execsql {
    SELECT max('z+'||a||'abcdefghijklmnopqrstuvwxyzaABCDEFGHIJKLMNop') FROM t2;
  }
} {z+67890abcdefghijklmnopqrstuvwxyzaABCDEFGHIJKLMNop}

ifcapable tempdb {
  do_test func-8.3 {
    execsql {
      CREATE TEMP TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
      SELECT min('z+'||a||'abcdefghijklmnopqrstuvwxyzaABCDEFGHIJKLMNop') FROM t3;
    }
  } {z+1abcdefghijklmnopqrstuvwxyzaABCDEFGHIJKLMNop}
} else {
  do_test func-8.3 {

```

```

execsql {
  CREATE TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
  SELECT min('z+'||a||'abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ') FROM t3;
}
} {z+1abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ}
}
do_test func-8.4 {
execsql {
  SELECT max('z+'||a||'abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ') FROM t3;
}
} {z+67890abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ}
ifcapable compound {
do_test func-8.5 {
execsql {
  SELECT sum(x) FROM (SELECT '9223372036' || '854775807' AS x
    UNION ALL SELECT -9223372036854775807)
}
} {0}
do_test func-8.6 {
execsql {
  SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775807' AS x
    UNION ALL SELECT -9223372036854775807)
}
} {integer}
do_test func-8.7 {
execsql {
  SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775808' AS x
    UNION ALL SELECT -9223372036854775807)
}
} {real}
ifcapable floatingpoint {
do_test func-8.8 {
execsql {
  SELECT sum(x)>0.0 FROM (SELECT '9223372036' || '854775808' AS x
    UNION ALL SELECT -922337203685000000)
}
} {1}
}
ifcapable !floatingpoint {
do_test func-8.8 {
execsql {
  SELECT sum(x)>0 FROM (SELECT '9223372036' || '854775808' AS x
    UNION ALL SELECT -922337203685000000)
}
} {1}
}
}

```


How do you test the random() function in a meaningful, deterministic way?

#

do_test func-9.1 {

execsql {

SELECT random() is not null;

}

} {1}

do_test func-9.2 {

execsql {

SELECT typeof(random());

}

} {integer}

do_test func-9.3 {

execsql {

SELECT randblob(32) is not null;

}

} {1}

do_test func-9.4 {

execsql {

SELECT typeof(randblob(32));

}

} {blob}

do_test func-9.5 {

execsql {

SELECT length(randblob(32)), length(randblob(-5)),
length(randblob(2000))

}

} {32 1 2000}

The "hex()" function was added in order to be able to render blobs

generated by randblob(). So this seems like a good place to test

hex().

#

ifcapable bloblit {

do_test func-9.10 {

execsql {SELECT hex(x'00112233445566778899aAbBcCdDeEfF')}

} {00112233445566778899AABBCCDDEEFF}

}

set encoding [db one {PRAGMA encoding}]

if {\$encoding=="UTF-16le"} {

do_test func-9.11-utf16le {

execsql {SELECT hex(replace('abcdefg','ef','12'))}

} {6100620063006400310032006700}

do_test func-9.12-utf16le {

execsql {SELECT hex(replace('abcdefg','','12'))}

} {6100620063006400650066006700}

do_test func-9.13-utf16le {

execsql {SELECT hex(replace('abcdefg','a','aaa'))}

```

} {6100610061006100610061006100620063006400650066006700}
} elseif {$encoding=="UTF-8"} {
do_test func-9.11-utf8 {
    execsql {SELECT hex(replace('abcdefg','ef','12'))}
} {61626364313267}
do_test func-9.12-utf8 {
    execsql {SELECT hex(replace('abcdefg','','12'))}
} {61626364656667}
do_test func-9.13-utf8 {
    execsql {SELECT hex(replace('abcdefg','a','aaa'))}
} {616161616161626364656667}
}

# Use the "sqlite_register_test_function" TCL command which is part of
# the text fixture in order to verify correct operation of some of
# the user-defined SQL function APIs that are not used by the built-in
# functions.
#
set ::DB [sqlite3_connection_pointer db]
sqlite_register_test_function $::DB testfunc
do_test func-10.1 {
    catchsql {
        SELECT testfunc(NULL,NULL);
    }
} {1 {first argument should be one of: int int64 string double null value}}
do_test func-10.2 {
    execsql {
        SELECT testfunc(
            'string', 'abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ',
            'int', 1234
        );
    }
} {1234}
do_test func-10.3 {
    execsql {
        SELECT testfunc(
            'string', 'abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ',
            'string', NULL
        );
    }
} {{}}

ifcapable floatingpoint {
do_test func-10.4 {
    execsql {
        SELECT testfunc(
            'string', 'abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ',
            'double', 1.234
    }
}

```

```

    );
  }
} {1.234}
do_test func-10.5 {
  execsql {
    SELECT testfunc(
      'string', 'abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ',
      'int', 1234,
      'string', 'abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ',
      'string', NULL,
      'string', 'abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ',
      'double', 1.234,
      'string', 'abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ',
      'int', 1234,
      'string', 'abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ',
      'string', NULL,
      'string', 'abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ',
      'double', 1.234
    );
  }
} {1.234}
}

```

Test the built-in sqlite_version(*) SQL function.

#

```

do_test func-11.1 {
  execsql {
    SELECT sqlite_version(*)
  }
} [sqlite3 -version]

```

Test that destructors passed to sqlite3 by calls to sqlite3_result_text()

etc. are called. These tests use two special user-defined functions

(implemented in func.c) only available in test builds.

#

Function test_destructor() takes one argument and returns a copy of the

text form of that argument. A destructor is associated with the return

value. Function test_destructor_count() returns the number of outstanding

destructor calls for values returned by test_destructor().

#

```

if {[db eval {PRAGMA encoding}]=="UTF-8"} {

```

```

  do_test func-12.1-utf8 {

```

```

    execsql {

```

```

      SELECT test_destructor('hello world'), test_destructor_count();

```

```

    }

```

```

  } {hello world} 1}

```

```

} else {

```

```

  ifcapable {utf16} {

```

```

do_test func-12.1-utf16 {
    execsql {
        SELECT test_destructor16('hello world'), test_destructor_count();
    }
} {{hello world} 1}
}
do_test func-12.2 {
    execsql {
        SELECT test_destructor_count();
    }
} {0}
do_test func-12.3 {
    execsql {
        SELECT test_destructor('hello')||' world'
    }
} {{hello world}}
do_test func-12.4 {
    execsql {
        SELECT test_destructor_count();
    }
} {0}
do_test func-12.5 {
    execsql {
        CREATE TABLE t4(x);
        INSERT INTO t4 VALUES(test_destructor('hello'));
        INSERT INTO t4 VALUES(test_destructor('world'));
        SELECT min(test_destructor(x)), max(test_destructor(x)) FROM t4;
    }
} {hello world}
do_test func-12.6 {
    execsql {
        SELECT test_destructor_count();
    }
} {0}
do_test func-12.7 {
    execsql {
        DROP TABLE t4;
    }
} {}

```

Test that the auxdata API for scalar functions works. This test uses
a special user-defined function only available in test builds,
test_auxdata(). Function test_auxdata() takes any number of arguments.

```

do_test func-13.1 {
    execsql {
        SELECT test_auxdata('hello world');
    }
}

```

```

}
} {0}

do_test func-13.2 {
execsql {
CREATE TABLE t4(a, b);
INSERT INTO t4 VALUES('abc', 'def');
INSERT INTO t4 VALUES('ghi', 'jkl');
}
} {}
do_test func-13.3 {
execsql {
SELECT test_auxdata('hello world') FROM t4;
}
} {0 1}
do_test func-13.4 {
execsql {
SELECT test_auxdata('hello world', 123) FROM t4;
}
} {{0 0} {1 1}}
do_test func-13.5 {
execsql {
SELECT test_auxdata('hello world', a) FROM t4;
}
} {{0 0} {1 0}}
do_test func-13.6 {
execsql {
SELECT test_auxdata('hello'||'world', a) FROM t4;
}
} {{0 0} {1 0}}

# Test that auxiliary data is preserved between calls for SQL variables.
do_test func-13.7 {
set DB [sqlite3_connection_pointer db]
set sql "SELECT test_auxdata( ?, a ) FROM t4;"
set STMT [sqlite3_prepare $DB $sql -1 TAIL]
sqlite3_bind_text $STMT 1 hello\000 -1
set res [list]
while { "SQLITE_ROW"==[sqlite3_step $STMT] } {
lappend res [sqlite3_column_text $STMT 0]
}
lappend res [sqlite3_finalize $STMT]
} {{0 0} {1 0} SQLITE_OK}

# Make sure that a function with a very long name is rejected
do_test func-14.1 {
catch {
db function [string repeat X 254] {return "hello"}
}
}

```

```

}
} {0}
do_test func-14.2 {
catch {
    db function [string repeat X 256] {return "hello"}
}
} {1}

do_test func-15.1 {
catchsql {select test_error(NULL)}
} {1 {}}
do_test func-15.2 {
catchsql {select test_error('this is the error message')}
} {1 {this is the error message}}
do_test func-15.3 {
catchsql {select test_error('this is the error message',12)}
} {1 {this is the error message}}
do_test func-15.4 {
db errorcode
} {12}

# Test the quote function for BLOB and NULL values.
do_test func-16.1 {
execsql {
    CREATE TABLE tbl2(a, b);
}
set STMT [sqlite3_prepare $::DB "INSERT INTO tbl2 VALUES(?, ?)" -1 TAIL]
sqlite3_bind_blob $::STMT 1 abc 3
sqlite3_step $::STMT
sqlite3_finalize $::STMT
execsql {
    SELECT quote(a), quote(b) FROM tbl2;
}
} {X'616263' NULL}

# Correctly handle function error messages that include %. Ticket #1354
#
do_test func-17.1 {
proc testfunc1 args {error "Error %d with %s percents %p"}
db function testfunc1 ::testfunc1
catchsql {
    SELECT testfunc1(1,2,3);
}
} {1 {Error %d with %s percents %p}}

# The SUM function should return integer results when all inputs are integer.
#
do_test func-18.1 {

```

```

execsql {
    CREATE TABLE t5(x);
    INSERT INTO t5 VALUES(1);
    INSERT INTO t5 VALUES(-99);
    INSERT INTO t5 VALUES(10000);
    SELECT sum(x) FROM t5;
}
} {9902}
ifcapable floatingpoint {
do_test func-18.2 {
    execsql {
        INSERT INTO t5 VALUES(0.0);
        SELECT sum(x) FROM t5;
    }
} {9902.0}
}

# The sum of nothing is NULL. But the sum of all NULLs is NULL.
#
# The TOTAL of nothing is 0.0.
#
do_test func-18.3 {
    execsql {
        DELETE FROM t5;
        SELECT sum(x), total(x) FROM t5;
    }
} {{} 0.0}
do_test func-18.4 {
    execsql {
        INSERT INTO t5 VALUES(NULL);
        SELECT sum(x), total(x) FROM t5
    }
} {{} 0.0}
do_test func-18.5 {
    execsql {
        INSERT INTO t5 VALUES(NULL);
        SELECT sum(x), total(x) FROM t5
    }
} {{} 0.0}
do_test func-18.6 {
    execsql {
        INSERT INTO t5 VALUES(123);
        SELECT sum(x), total(x) FROM t5
    }
} {123 123.0}

# Ticket #1664, #1669, #1670, #1674: An integer overflow on SUM causes
# an error. The non-standard TOTAL() function continues to give a helpful

```

```

# result.
#
do_test func-18.10 {
  execsql {
    CREATE TABLE t6(x INTEGER);
    INSERT INTO t6 VALUES(1);
    INSERT INTO t6 VALUES(1<<62);
    SELECT sum(x) - ((1<<62)+1) from t6;
  }
} 0
do_test func-18.11 {
  execsql {
    SELECT typeof(sum(x)) FROM t6
  }
} integer
ifcapable floatingpoint {
  do_test func-18.12 {
    catchsql {
      INSERT INTO t6 VALUES(1<<62);
      SELECT sum(x) - ((1<<62)*2.0+1) from t6;
    }
  } {1 {integer overflow}}
  do_test func-18.13 {
    execsql {
      SELECT total(x) - ((1<<62)*2.0+1) FROM t6
    }
  } 0.0
}
ifcapable !floatingpoint {
  do_test func-18.12 {
    catchsql {
      INSERT INTO t6 VALUES(1<<62);
      SELECT sum(x) - ((1<<62)*2+1) from t6;
    }
  } {1 {integer overflow}}
  do_test func-18.13 {
    execsql {
      SELECT total(x) - ((1<<62)*2+1) FROM t6
    }
  } 0.0
}
if {[working_64bit_int]} {
  do_test func-18.14 {
    execsql {
      SELECT sum(-9223372036854775805);
    }
  } -9223372036854775805
}

```



```

ifcapable compound&&subquery {

do_test func-18.15 {
catchsql {
    SELECT sum(x) FROM
    (SELECT 9223372036854775807 AS x UNION ALL
    SELECT 10 AS x);
}
} {1 {integer overflow}}
if {[working_64bit_int]} {
do_test func-18.16 {
catchsql {
    SELECT sum(x) FROM
    (SELECT 9223372036854775807 AS x UNION ALL
    SELECT -10 AS x);
}
} {0 9223372036854775797}
do_test func-18.17 {
catchsql {
    SELECT sum(x) FROM
    (SELECT -9223372036854775807 AS x UNION ALL
    SELECT 10 AS x);
}
} {0 -9223372036854775797}
}
do_test func-18.18 {
catchsql {
    SELECT sum(x) FROM
    (SELECT -9223372036854775807 AS x UNION ALL
    SELECT -10 AS x);
}
} {1 {integer overflow}}
do_test func-18.19 {
catchsql {
    SELECT sum(x) FROM (SELECT 9 AS x UNION ALL SELECT -10 AS x);
}
} {0 -1}
do_test func-18.20 {
catchsql {
    SELECT sum(x) FROM (SELECT -9 AS x UNION ALL SELECT 10 AS x);
}
} {0 1}
do_test func-18.21 {
catchsql {
    SELECT sum(x) FROM (SELECT -10 AS x UNION ALL SELECT 9 AS x);
}
} {0 -1}
do_test func-18.22 {

```

```

catchsql {
  SELECT sum(x) FROM (SELECT 10 AS x UNION ALL SELECT -9 AS x);
}
} {0 1}

```

```

} ;# ifcapable compound&&subquery

```

```

# Integer overflow on abs()

```

```

#

```

```

if {[working_64bit_int]} {

```

```

do_test func-18.31 {

```

```

  catchsql {

```

```

    SELECT abs(-9223372036854775807);

```

```

  }

```

```

} {0 9223372036854775807}

```

```

}

```

```

do_test func-18.32 {

```

```

  catchsql {

```

```

    SELECT abs(-9223372036854775807-1);

```

```

  }

```

```

} {1 {integer overflow}}

```

```

# The MATCH function exists but is only a stub and always throws an error.

```

```

#

```

```

do_test func-19.1 {

```

```

  execsql {

```

```

    SELECT match(a,b) FROM t1 WHERE 0;

```

```

  }

```

```

} {}

```

```

do_test func-19.2 {

```

```

  catchsql {

```

```

    SELECT 'abc' MATCH 'xyz';

```

```

  }

```

```

} {1 {unable to use function MATCH in the requested context}}

```

```

do_test func-19.3 {

```

```

  catchsql {

```

```

    SELECT 'abc' NOT MATCH 'xyz';

```

```

  }

```

```

} {1 {unable to use function MATCH in the requested context}}

```

```

do_test func-19.4 {

```

```

  catchsql {

```

```

    SELECT match(1,2,3);

```

```

  }

```

```

} {1 {wrong number of arguments to function match()}}

```

```

# Soundex tests.

```

```

#

```

```

if ![catch {db eval {SELECT soundex('hello')}}] {

```

```

set i 0
foreach {name sdx} {
  euler      E460
  EULER      E460
  Euler      E460
  ellery     E460
  gauss      G200
  ghosh      G200
  hilbert    H416
  Heilbronn  H416
  knuth      K530
  kant       K530
  Lloyd      L300
  LADD       L300
  Lukasiewicz L222
  Lissajous  L222
  A          A000
  12345      ?000
} {
  incr i
  do_test func-20.$i {
    execsql {SELECT soundex($name)}
  } $sdx
}

# Tests of the REPLACE function.
#
do_test func-21.1 {
  catchsql {
    SELECT replace(1,2);
  }
} {1 {wrong number of arguments to function replace()}}
do_test func-21.2 {
  catchsql {
    SELECT replace(1,2,3,4);
  }
} {1 {wrong number of arguments to function replace()}}
do_test func-21.3 {
  execsql {
    SELECT typeof(replace("This is the main test string", NULL, "ALT"));
  }
} {null}
do_test func-21.4 {
  execsql {
    SELECT typeof(replace(NULL, "main", "ALT"));
  }
} {null}

```

```

do_test func-21.5 {
    execsql {
        SELECT typeof(replace("This is the main test string", "main", NULL));
    }
} {null}
do_test func-21.6 {
    execsql {
        SELECT replace("This is the main test string", "main", "ALT");
    }
} {{This is the ALT test string}}
do_test func-21.7 {
    execsql {
        SELECT replace("This is the main test string", "main", "larger-main");
    }
} {{This is the larger-main test string}}
do_test func-21.8 {
    execsql {
        SELECT replace("aaaaaaa", "a", "0123456789");
    }
} {0123456789012345678901234567890123456789012345678901234567890123456789}

ifcapable tclvar {
    do_test func-21.9 {
        # Attempt to exploit a buffer-overflow that at one time existed
        # in the REPLACE function.
        set ::str "[string repeat A 29998]CC[string repeat A 35537]"
        set ::rep [string repeat B 65536]
        execsql {
            SELECT LENGTH(REPLACE($::str, 'C', $::rep));
        }
    } [expr 29998 + 2*65536 + 35537]
}

# Tests for the TRIM, LTRIM and RTRIM functions.
#
do_test func-22.1 {
    catchsql {SELECT trim(1,2,3)}
} {1 {wrong number of arguments to function trim()}}
do_test func-22.2 {
    catchsql {SELECT ltrim(1,2,3)}
} {1 {wrong number of arguments to function ltrim()}}
do_test func-22.3 {
    catchsql {SELECT rtrim(1,2,3)}
} {1 {wrong number of arguments to function rtrim()}}
do_test func-22.4 {
    execsql {SELECT trim(' hi ');}
} {hi}
do_test func-22.5 {

```

```

execsql {SELECT ltrim(' hi ');}
} {{hi }}
do_test func-22.6 {
execsql {SELECT rtrim(' hi ');}
} {{ hi}}
do_test func-22.7 {
execsql {SELECT trim(' hi ','xyz');}
} {{ hi }}
do_test func-22.8 {
execsql {SELECT ltrim(' hi ','xyz');}
} {{ hi }}
do_test func-22.9 {
execsql {SELECT rtrim(' hi ','xyz');}
} {{ hi }}
do_test func-22.10 {
execsql {SELECT trim('yxzy hi zzy','xyz');}
} {{ hi }}
do_test func-22.11 {
execsql {SELECT ltrim('yxzy hi zzy','xyz');}
} {{ hi zzy}}
do_test func-22.12 {
execsql {SELECT rtrim('yxzy hi zzy','xyz');}
} {{yxzy hi }}
do_test func-22.13 {
execsql {SELECT trim(' hi ','');}
} {{ hi }}
if {[db one {PRAGMA encoding}]=="UTF-8"} {
do_test func-22.14 {
execsql {SELECT hex(trim(x'c280e1bfbff48fbfbf6869',x'6162e1bfbfc280'))}
} {F48FBFBF6869}
do_test func-22.15 {
execsql {SELECT hex(trim(x'6869c280e1bfbff48fbfbf61',
x'6162e1bfbfc280f48fbfbf'))}
} {6869}
do_test func-22.16 {
execsql {SELECT hex(trim(x'ceb1ceb2ceb3',x'ceb1'));}
} {CEB2CEB3}
}
do_test func-22.20 {
execsql {SELECT typeof(trim(NULL));}
} {null}
do_test func-22.21 {
execsql {SELECT typeof(trim(NULL,'xyz'));}
} {null}
do_test func-22.22 {
execsql {SELECT typeof(trim('hello',NULL));}
} {null}

```

```

# This is to test the deprecated sqlite3_aggregate_count() API.
#
ifcapable deprecated {
do_test func-23.1 {
    sqlite3_create_aggregate db
    execsql {
        SELECT legacy_count() FROM t6;
    }
} {3}
}

# The group_concat() function.
#
do_test func-24.1 {
    execsql {
        SELECT group_concat(t1) FROM tbl1
    }
} {this,program,is,free,software}
do_test func-24.2 {
    execsql {
        SELECT group_concat(t1,') FROM tbl1
    }
} {{this program is free software}}
do_test func-24.3 {
    execsql {
        SELECT group_concat(t1,' ' || rowid || ') FROM tbl1
    }
} {{this 2 program 3 is 4 free 5 software}}
do_test func-24.4 {
    execsql {
        SELECT group_concat(NULL,t1) FROM tbl1
    }
} {{{}}
do_test func-24.5 {
    execsql {
        SELECT group_concat(t1,NULL) FROM tbl1
    }
} {thisprogramisfreesoftware}
do_test func-24.6 {
    execsql {
        SELECT 'BEGIN-'||group_concat(t1) FROM tbl1
    }
} {BEGIN-this,program,is,free,software}

# Ticket #3179: Make sure aggregate functions can take many arguments.
# None of the built-in aggregates do this, so use the md5sum() from the
# test extensions.
#

```

```

unset -nocomplain midargs
set midargs {}
unset -nocomplain midres
set midres {}
unset -nocomplain result
for {set i 1} {$i<[sqlite3_limit db SQLITE_LIMIT_FUNCTION_ARG -1]} {incr i} {
  append midargs ,/$i'
  append midres /$i
  set result [md5 \
    "this${midres}program${midres}is${midres}free${midres}software${midres}"]
  set sql "SELECT md5sum(t1$midargs) FROM tbl1"
  do_test func-24.7.$i {
    db eval $::sql
  } $result
}

# Ticket #3806. If the initial string in a group_concat is an empty
# string, the separator that follows should still be present.
#
do_test func-24.8 {
  execsql {
    SELECT group_concat(CASE t1 WHEN 'this' THEN " ELSE t1 END) FROM tbl1
  }
} {,program,is,free,software}
do_test func-24.9 {
  execsql {
    SELECT group_concat(CASE WHEN t1!='software' THEN " ELSE t1 END) FROM tbl1
  }
} {,,,,software}

# Ticket #3923. Initial empty strings have a separator. But initial
# NULLs do not.
#
do_test func-24.10 {
  execsql {
    SELECT group_concat(CASE t1 WHEN 'this' THEN null ELSE t1 END) FROM tbl1
  }
} {program,is,free,software}
do_test func-24.11 {
  execsql {
    SELECT group_concat(CASE WHEN t1!='software' THEN null ELSE t1 END) FROM tbl1
  }
} {software}
do_test func-24.12 {
  execsql {
    SELECT group_concat(CASE t1 WHEN 'this' THEN "
      WHEN 'program' THEN null ELSE t1 END) FROM tbl1
  }
}

```



```

# Ticket 2d401a94287b5
# Unknown function in a DEFAULT expression causes a segfault.
#
do_test func-28.1 {
  db eval {
    CREATE TABLE t28(x, y DEFAULT(nosuchfunc(1)));
  }
  catchsql {
    INSERT INTO t28(x) VALUES(1);
  }
} {1 {unknown function: nosuchfunc()}}

# Verify that the length() and typeof() functions do not actually load
# the content of their argument.
#
do_test func-29.1 {
  db eval {
    CREATE TABLE t29(id INTEGER PRIMARY KEY, x, y);
    INSERT INTO t29 VALUES(1, 2, 3), (2, NULL, 4), (3, 4.5, 5);
    INSERT INTO t29 VALUES(4, randomblob(1000000), 6);
    INSERT INTO t29 VALUES(5, "hello", 7);
  }
  db close
  sqlite3 db test.db
  sqlite3_db_status db CACHE_MISS 1
  db eval {SELECT typeof(x), length(x), typeof(y) FROM t29 ORDER BY id}
} {integer 1 integer null {} integer real 3 integer blob 1000000 integer text 5 integer}
do_test func-29.2 {
  set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
  if {$x<5} {set x 1}
  set x
} {1}
do_test func-29.3 {
  db close
  sqlite3 db test.db
  sqlite3_db_status db CACHE_MISS 1
  db eval {SELECT typeof(+x) FROM t29 ORDER BY id}
} {integer null real blob text}
if {[permutation] != "mmap"} {
  do_test func-29.4 {
    set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
    if {$x>100} {set x many}
    set x
  } {many}
}
do_test func-29.5 {
  db close
  sqlite3 db test.db

```

```

sqlite3_db_status db CACHE_MISS 1
db eval {SELECT sum(length(x)) FROM t29}
} {1000009}
do_test func-29.6 {
set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
if {$x<5} {set x 1}
set x
} {1}

do_execsql_test func-30.1 {SELECT unicode('$');} 36
do_execsql_test func-30.2 [subst {SELECT unicode('\u00A2');}] 162
do_execsql_test func-30.3 [subst {SELECT unicode('\u20AC');}] 8364
do_execsql_test func-30.4 {SELECT char(36,162,8364);} [subst {$\u00A2\u20AC}]

for {set i 1} {$i<0xd800} {incr i 13} {
do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
for {set i 57344} {$i<=0xffff} {incr i 17} {
if {$i==0xfeff} continue
do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
for {set i 65536} {$i<=0x10ffff} {incr i 139} {
do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}

finish_test

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-
archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNIVkuI7/sqlite-src-3071700/test/func.test

```

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

2006 October 1

#

The author disclaims copyright to this source code. In place of
a legal notice, here is a blessing:

#

May you do good and not evil.

May you find forgiveness for yourself and forgive others.

May you share freely, never taking more than you give.

#

This file implements regression tests for SQLite library. The

focus of this script is testing the FTS1 module, and in particular

the Porter stemmer.

#

\$Id: fts1porter.test,v 1.5 2006/10/03 19:37:37 drh Exp \$

#

```

set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
ifcapable !fts1 {
    finish_test
    return
}

# Test data for the Porter stemmer. The first word of each line
# is the input. The second word is the desired output.
#
# This test data is taken from http://www.tartarus.org/martin/PorterStemmer/
# There is no claim of copyright made on that page, but you should
# probably contact the author (Martin Porter - the inventor of the
# Porter Stemmer algorithm) if you want to use this test data in a
# commercial product of some kind. The stemmer code in FTS1 is a
# complete rewrite from scratch based on the algorithm specification
# and does not contain any code under copyright.
#
set porter_test_data {
    a          a
    aaron      aaron
    abaissiez  abaissiez
    abandon    abandon
    abandoned  abandon
    abase      abas
    abash      abash
    abate      abat
    abated     abat
    abatement  abat
    abatements abat
    abates     abat
    abbess     abbess
    abbey      abbei
    abbeys     abbei
    abbominable  abbomin
    abbot      abbot
    abbots     abbot
    abbreviated  abbrevi
    abed       ab
    abel       abel
    aberga     aberga
    abergavenny  abergavenni
    abet       abet
    abetting   abet
    abhominable  abhomin

```

abhor	abhor
abhorr	abhorr
abhorred	abhor
abhorring	abhor
abhors	abhor
abhorson	abhorson
abide	abid
abides	abid
abilities	abil
ability	abil
abject	abject
abjectly	abjectli
abjects	abject
abjur	abjur
abjure	abjur
able	abl
abler	abler
aboard	aboard
abode	abod
aboded	abod
abodements	abod
aboding	abod
abominable	abomin
abominably	abomin
abominations	abomin
abortive	abort
abortives	abort
abound	abound
abounding	abound
about	about
above	abov
abr	abr
abraham	abraham
abram	abram
abreast	abreast
abridg	abridg
abridge	abridg
abridged	abridg
abridgment	abridg
abroach	abroach
abroad	abroad
abrogate	abrog
abrook	abrook
abrupt	abrupt
abruption	abrupt
abruptly	abruptli
absence	absenc
absent	absent

absey	absei
absolute	absolut
absolutely	absolut
absolv	absolv
absolver	absolv
abstains	abstain
abstemious	abstemi
abstinence	abstin
abstract	abstract
absurd	absurd
absyrtus	absyrtu
abundance	abund
abundant	abund
abundantly	abundantli
abus	abu
abuse	abus
abused	abus
abuser	abus
abuses	abus
abusing	abus
abutting	abut
aby	abi
abysm	abysm
ac	ac
academe	academ
academes	academ
accent	accent
accents	accent
accept	accept
acceptable	accept
acceptance	accept
accepted	accept
accepts	accept
access	access
accessary	accessari
accessible	access
accidence	accid
accident	accid
accidental	accident
accidentally	accident
accidents	accid
accite	accit
accited	accit
accites	accit
acclamations	acclam
accommodate	accommod
accommodated	accommod
accommodation	accommod

accommodations	accommod
accommodo	accommodo
accompanied	acompani
accompany	acompani
accompanying	acompani
accomplices	accomplic
accomplish	accomplish
accomplished	accomplish
accomplishing	accomplish
accomplishment	accomplish
acompt	acompt
accord	accord
accordant	accord
accorded	accord
accordeth	accordeth
according	accord
accordingly	accordingli
accords	accord
accost	accost
accosted	accost
account	account
accountant	account
accounted	account
accounts	account
accoutred	accoutr
accoutrement	accoutr
accoutrements	accoutr
accrue	accru
accumulate	accumul
accumulated	accumul
accumulation	accumul
accurs	accur
accursed	accurs
accurst	accurst
accus	accu
accusation	accus
accusations	accus
accusative	accus
accusativo	accusativo
accuse	accus
accused	accus
accuser	accus
accusers	accus
accuses	accus
accuseth	accuseth
accusing	accus
accustom	accustom
accustomed	accustom

ace	ac
acerb	acerb
ache	ach
acheron	acheron
aches	ach
achiev	achiev
achieve	achiev
achieved	achiev
achievement	achiev
achievements	achiev
achiever	achiev
achieves	achiev
achieving	achiev
achilles	achil
aching	ach
achitophel	achitophel
acknowledg	acknowledg
acknowledge	acknowledg
acknowledged	acknowledg
acknowledgment	acknowledg
acknown	acknown
acold	acold
aconitum	aconitum
acordo	acordo
acorn	acorn
acquaint	acquaint
acquaintance	acquaint
acquainted	acquaint
acquaints	acquaint
acquir	acquir
acquire	acquir
acquisition	acquisit
acquit	acquit
acquittance	acquitt
acquittances	acquitt
acquitted	acquit
acre	acr
acres	acr
across	across
act	act
actaeon	actaeon
acted	act
acting	act
action	action
actions	action
actium	actium
active	activ
actively	activ

activity	activ
actor	actor
actors	actor
acts	act
actual	actual
acture	actur
acute	acut
acutely	acut
ad	ad
adage	adag
adallas	adalla
adam	adam
adamant	adam
add	add
added	ad
adder	adder
adders	adder
addeth	addeth
addict	addict
addicted	addict
addiction	addict
adding	ad
addition	addit
additions	addit
addle	addl
address	address
addressing	address
addrest	addrest
adds	add
adhere	adher
adheres	adher
adieu	adieu
adieux	adieu
adjacent	adjac
adjoin	adjoin
adjoining	adjoin
adjourn	adjourn
adjudg	adjudg
adjudged	adjudg
adjunct	adjunct
administer	administ
administration	administr
admir	admir
admirable	admir
admiral	admir
admiration	admir
admire	admir
admired	admir

admirer	admir
admiring	admir
admiringly	admiringli
admission	admiss
admit	admit
admits	admit
admittance	admitt
admitted	admit
admitting	admit
admonish	admonish
admonishing	admonish
admonishment	admonish
admonishments	admonish
admonition	admonit
ado	ado
adonis	adoni
adopt	adopt
adopted	adopt
adoptedly	adoptedli
adoption	adopt
adoptious	adopti
adopts	adopt
ador	ador
adoration	ador
adorations	ador
adore	ador
adorer	ador
adores	ador
adorest	adorest
adoreth	adoreth
adoring	ador
adorn	adorn
adorned	adorn
adornings	adorn
adornment	adorn
adorns	adorn
adown	adown
adramadio	adramadio
adrian	adrian
adriana	adriana
adriano	adriano
adriatic	adriat
adsum	adsum
adulation	adul
adulterate	adulter
adulterates	adulter
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adulteress	adulteress

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advantageous	advantag
advantages	advantag
advantaging	advantag
advent	advent
adventur	adventur
adventure	adventur
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adventuring	adventur
adventurous	adventur
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adversaries	adversari
adversary	adversari
adverse	advers
adversely	advers
adversities	advers
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advertis	adverti
advertise	advertis
advertised	advertis
advertisement	advertis
advertising	advertis
advice	advic
advis	advi
advise	advis
advised	advis
advisedly	advisedli
advises	advis
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advocate	advoc
advocation	advoc
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aedile	aedil
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aegion	aegion
aegles	aegl
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aemilia	aemilia
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aerial	aerial
aery	aeri
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aeson	aeson
aesop	aesop
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affect	affect
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affected	affect
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affecting	affect
affection	affect
affectionate	affection
affectionately	affection
affections	affect
affects	affect
affeer	affeer
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affiance	affianc
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affied	affi
affin	affin
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affirm	affirm
affirmation	affirm
affirmatives	affirm
afflict	afflict
afflicted	afflict

affliction	afflict
afflictions	afflict
afflicts	afflict
afford	afford
affordeth	affordeth
affords	afford
affray	affrai
affright	affright
affrighted	affright
affrights	affright
affront	affront
affronted	affront
affy	affi
afield	afield
afire	afir
afloat	afloat
afoot	afoot
afore	afor
aforehand	aforehand
aforesaid	aforesaid
afraid	afraid
afresh	afresh
afric	afric
africa	africa
african	african
afront	afront
after	after
afternoon	afternoon
afterward	afterward
afterwards	afterward
ag	ag
again	again
against	against
agamemmon	agamemmon
agamemnon	agamemnon
agate	agat
agaz	agaz
age	ag
aged	ag
agenor	agenor
agent	agent
agents	agent
ages	ag
aggravate	aggrav
aggrief	aggrief
agile	agil
agincourt	agincourt
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agnize	agniz
ago	ago
agone	agon
agony	agoni
agree	agre
agreed	agre
agreeing	agre
agreement	agreement
agrees	agre
agrippa	agrippa
aground	aground
ague	agu
aguecheek	aguecheek
agued	agu
agueface	aguefac
agues	agu
ah	ah
aha	aha
ahungry	ahungri
ai	ai
aialvolio	aialvolio
aiaria	aiaria
aid	aid
aidance	aidanc
aidant	aidant
aided	aid
aiding	aid
aidless	aidless
aids	aid
ail	ail
aim	aim
aimed	aim
aimest	aimest
aiming	aim
aims	aim
ainsi	ainsi
aio	aio
air	air
aired	air
airless	airless
airs	air
airy	airi
ajax	ajax
akilling	akil
al	al
alabaster	alabast
alack	alack

alacrity	alacr
alabus	alabu
alarm	alarm
alarms	alarm
alarum	alarum
alarums	alarum
alas	ala
alb	alb
alban	alban
albans	alban
albany	albani
albeit	albeit
albion	albion
alchemist	alchemist
alchemy	alchemi
alcibiades	alcibiad
alcides	alcid
alder	alder
alderman	alderman
aldermen	aldermen
ale	al
alecto	alecto
alehouse	alehous
alehouses	alehous
alencon	alencon
alengon	alengon
aleppo	aleppo
ales	al
alewife	alewif
alexander	alexand
alexanders	alexand
alexandria	alexandria
alexandrian	alexandrian
alexas	alexa
alias	alia
alice	alic
alien	alien
aliens	aliens
alight	alight
alighted	alight
alights	alight
aliis	alii
alike	alike
alisander	alisand
alive	aliv
all	all
alla	alla
allay	allai

allayed	allai
allaying	allai
allayment	allay
allayments	allay
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allegation	alleg
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allegiance	allegi
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alley	allei
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allicholy	allicholi
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allottery	allotteri
allow	allow
allowance	allow
allowed	allow
allowing	allow
allows	allow
allur	allur
allure	allur
allurement	allur
alluring	allur
allusion	allus
ally	alli
allycholly	allycholli
almain	almain
almanac	almanac
almanack	almanack
almanacs	almanac
almighty	almighti
almond	almond
almost	almost
alms	alm
almsman	almsman
aloes	alo
aloft	aloft

alone	alon
along	along
alonso	alonso
aloof	aloof
aloud	aloud
alphabet	alphabet
alphabetical	alphabet
alphonso	alphonso
alps	alp
already	alreadi
also	also
alt	alt
altar	altar
altars	altar
alter	alter
alteration	alter
altered	alter
alters	alter
althaea	althaea
although	although
altitude	altitud
altogether	altogeth
alton	alton
alway	alwai
always	alwai
am	am
amaimon	amaimon
amain	amain
amaking	amak
amamon	amamon
amaz	amaz
amaze	amaz
amazed	amaz
amazedly	amazedli
amazedness	amazed
amazement	amaz
amazes	amaz
amazeth	amazeth
amazing	amaz
amazon	amazon
amazonian	amazonian
amazons	amazon
ambassador	ambassador
ambassadors	ambassador
amber	amber
ambiguides	ambiguid
ambiguities	ambigu
ambiguous	ambigu

ambition	ambit
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ambitious	ambiti
ambitiously	ambiti
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ambled	ambl
ambles	ambl
ambling	ambl
ambo	ambo
ambuscadoes	ambuscado
ambush	ambush
amen	amen
amend	amend
amended	amend
amendment	amend
amends	amend
amerce	amerc
america	america
ames	am
amiable	amiabl
amid	amid
amidst	amidst
amiens	amien
amis	ami
amiss	amiss
amities	amiti
amity	amiti
amnipotent	amnipot
among	among
amongst	amongst
amorous	amor
amorously	amor
amort	amort
amount	amount
amounts	amount
amour	amour
amphimacus	amphimacu
ample	ampl
ampler	ampler
amplest	amplest
amplified	amplifi
amplify	amplifi
amply	ampli
amphill	amphil
amurath	amurath
amyntas	amynta
an	an
anatomiz	anatomiz

anatomize	anatom
anatomy	anatomi
ancestor	ancestor
ancestors	ancestor
ancestry	ancestri
anchises	anchis
anchor	anchor
anchorage	anchorag
anchored	anchor
anchoring	anchor
anchors	anchor
anchovies	anchovi
ancient	ancient
ancientry	ancientri
ancients	ancient
ancus	ancu
and	and
andirons	andiron
andpholus	andpholu
andren	andren
andrew	andrew
andromache	andromach
andronici	andronici
andronicus	andronicu
anew	anew
ang	ang
angel	angel
angelica	angelica
angelical	angel
angelo	angelo
angels	angel
anger	anger
angerly	angerli
angers	anger
anges	ang
angiers	angier
angl	angl
anglais	anglai
angle	angl
angler	angler
angleterre	angleterr
angliae	anglia
angling	angl
anglish	anglish
angrily	angrili
angry	angri
anguish	anguish
angus	angu

animal	anim
animals	anim
animis	animi
anjou	anjou
ankle	ankl
anna	anna
annals	annal
anne	ann
annex	annex
annexed	annex
annexions	annexion
annexment	annex
annothanize	annothan
announces	announc
annoy	annoi
annoyance	annoy
annoying	annoi
annual	annual
anoint	anoint
anointed	anoint
anon	anon
another	anoth
anselmo	anselmo
answer	answer
answerable	answer
answered	answer
answerest	answerest
answering	answer
answers	answer
ant	ant
ante	ant
antenor	antenor
antenorides	antenorid
anteroom	anteroom
anthem	anthem
anthems	anthem
anthony	anthoni
anthropophagi	anthropophagi
anthropophaginian	anthropophaginian
antiates	antiat
antic	antic
anticipate	anticip
anticipates	anticip
anticipatest	anticipatest
anticipating	anticip
anticipation	anticip
antick	antick
anticly	anticli

antics	antic
antidote	antidot
antidotes	antidot
antigonus	antigону
antiopa	antiopa
antipathy	antipathi
antipholus	antipholu
antipholuses	antipholus
antipodes	antipod
antiquary	antiquari
antique	antiqu
antiquity	antiqu
antium	antium
antoniad	antoniad
antonio	antonio
antonius	antoniу
antony	antoni
antres	antr
anvil	anvil
any	ani
anybody	anybodi
anyone	anyon
anything	anyth
anywhere	anywher
ap	ap
apace	apac
apart	apart
apartment	apart
apartments	apart
ape	ap
apemantus	apemantu
apennines	apennin
apes	ap
apiece	apiec
apish	apish
apollinem	apollinem
apollo	apollo
apollodorus	apollodoru
apology	apolog
apoplex	apoplex
apoplexy	apoplexi
apostle	apostl
apostles	apostl
apostrophas	apostropha
apoth	apoth
apothecary	apothecari
appal	appal
appall	appal

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banbury	banburi
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bel	bel
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belongings	belong
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beloved	belov
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berard	berard
berattle	berattl
beray	berai
bere	bere
bereave	bereav
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berkeley	berkelei

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beteem	beteem
bethink	bethink
bethought	bethought
bethrothed	bethroth
bethump	bethump
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betide	betid
betideth	betideth
betime	betim
betimes	betim
betoken	betoken
betook	betook
betossed	betoss
betray	betrai
betrayed	betrai
betraying	betrai
betrays	betrai
betrim	betrim
betroth	betroth
betrothed	betroth
betroths	betroth
bett	bett
betted	bet
better	better
bettered	better
bettering	better
betters	better
betting	bet
bettre	bettr
between	between
betwixt	betwixt
bevel	bevel
beverage	beverag
bevis	bevi
bevy	bevi
bewail	bewail
bewailed	bewail
bewailing	bewail

bewails	bewail
beware	bewar
bewasted	bewast
beweep	beweep
bewept	bewept
bewet	bewet
bewhored	bewhor
bewitch	bewitch
bewitched	bewitch
bewitchment	bewitch
bewray	bewrai
beyond	beyond
bezonian	bezonian
bezonians	bezonian
bianca	bianca
bianco	bianco
bias	bia
bibble	bibbl
bickerings	bicker
bid	bid
bidden	bidden
bidding	bid
biddings	bid
biddy	biddi
bide	bide
bides	bide
biding	bide
bids	bid
bien	bien
bier	bier
bifold	bifold
big	big
bigamy	bigami
biggen	biggen
bigger	bigger
bigness	big
bigot	bigot
bilberry	bilberri
bilbo	bilbo
bilboes	bilbo
bilbow	bilbow
bill	bill
billeted	billet
billets	billet
billiards	billiard
billing	bill
billow	billow
billows	billow

bills	bill
bin	bin
bind	bind
bindeth	bindeth
binding	bind
binds	bind
biondello	biondello
birch	birch
bird	bird
birding	bird
birdlime	birdlim
birds	bird
birnam	birnam
birth	birth
birthday	birthdai
birthdom	birthdom
birthplace	birthplac
birthright	birthright
birthrights	birthright
births	birth
bis	bi
biscuit	biscuit
bishop	bishop
bishops	bishop
bisson	bisson
bit	bit
bitch	bitch
bite	bite
biter	biter
bites	bite
biting	bite
bits	bit
bitt	bitt
bitten	bitten
bitter	bitter
bitterest	bitterest
bitterly	bitterli
bitterness	bitter
blab	blab
blabb	blabb
blabbing	blab
blabs	blab
black	black
blackamoor	blackamoor
blackamoors	blackamoor
blackberries	blackberri
blackberry	blackberri
blackier	blackier

blackest	blackest
blackfriars	blackfriar
blackheath	blackheath
blackmere	blackmer
blackness	black
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bladders	bladder
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blades	blade
blains	blain
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blame	blame
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blameful	blame
blameless	blameless
blames	blame
blanc	blanc
blanca	blanca
blanch	blanch
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blanket	blanket
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blaspheme	blasphem
blaspheming	blasphem
blasphemous	blasphem
blasphemy	blasphemi
blast	blast
blasted	blast
blasting	blast
blastments	blastment
blasts	blast
blaz	blaz
blaze	blaze
blazes	blaze
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blazon	blazon
blazoned	blazon
blazoning	blazon
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bleaching	bleach
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bleared	blear
bleat	bleat
bleated	bleat
bleats	bleat

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bleed	bleed
bleedest	bleedest
bleedeth	bleedeth
bleeding	bleed
bleeds	bleed
blemish	blemish
blemishes	blemish
blench	blench
blenches	blench
blend	blend
blended	blend
blent	blent
bless	bless
blessed	bless
blessedly	blessedli
blessedness	blessed
blesses	bless
blesseth	blesseth
blessing	bless
blessings	bless
blest	blest
blew	blew
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blinded	blind
blindfold	blindfold
blinding	blind
blindly	blindli
blindness	blind
blinds	blind
blink	blink
blinking	blink
bliss	bliss
blist	blist
blister	blister
blisters	blister
blithe	blith
blithild	blithild
bloat	bloat
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blockish	blockish
blocks	block
blois	bloi
blood	blood
blooded	blood
bloodhound	bloodhound
bloodied	bloodi
bloodier	bloodier

bloodiest	bloodiest
bloodily	bloodily
bloodless	bloodless
bloods	blood
bloodshed	bloodsh
bloodshedding	bloodshed
bloodstained	bloodstain
bloody	bloodi
bloom	bloom
blooms	bloom
blossom	blossom
blossoming	blossom
blossoms	blossom
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blots	blot
blotted	blot
blotting	blot
blount	blount
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blowed	blow
blowers	blower
blowest	blowest
blowing	blow
blown	blown
blows	blow
blowse	blows
blubb	blubb
blubber	blubber
blubbering	blubber
blue	blue
bluecaps	bluecap
bluest	bluest
blunt	blunt
blunted	blunt
blunter	blunter
bluntest	bluntest
blunting	blunt
bluntly	bluntli
bluntness	blunt
blunts	blunt
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blurr	blurr
blurs	blur
blush	blush
blushes	blush
blushest	blushest
blushing	blush
blust	blust

bluster	bluster
blusterer	bluster
blusters	bluster
bo	bo
boar	boar
board	board
boarded	board
boarding	board
boards	board
boarish	boarish
boars	boar
boast	boast
boasted	boast
boastful	boast
boasting	boast
boasts	boast
boat	boat
boats	boat
boatswain	boatswain
bob	bob
bobb	bobb
boblibindo	boblibindo
bobtail	bobtail
bocchus	bocchu
bode	bode
boded	bode
bodements	bodement
bodes	bode
bodg	bodg
bodied	bodi
bodies	bodi
bodiless	bodiless
bodily	bodili
boding	bode
bodkin	bodkin
body	bodi
bodykins	bodykin
bog	bog
boggle	boggl
boggler	boggler
bogs	bog
bohemia	bohemia
bohemian	bohemian
bohun	bohun
boil	boil
boiling	boil
boils	boil
boist	boist

boisterous	boister
boisterously	boister
boitier	boitier
bold	bold
bolden	bolden
bolder	bolder
boldest	boldest
boldly	boldli
boldness	bold
bolds	bold
bolingbroke	bolingbrok
bolster	bolster
bolt	bolt
bolted	bolt
bolter	bolter
bolters	bolter
bolting	bolt
bolts	bolt
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bombast	bombast
bon	bon
bona	bona
bond	bond
bondage	bondag
bonded	bond
bondmaid	bondmaid
bondman	bondman
bondmen	bondmen
bonds	bond
bondslave	bondslav
bone	bone
boneless	boneless
bones	bone
bonfire	bonfir
bonfires	bonfir
bonjour	bonjour
bonne	bonn
bonnet	bonnet
bonneted	bonnet
bonny	bonni
bonos	bono
bonto	bonto
bonville	bonvil
bood	bood
book	book
bookish	bookish
books	book

boon	boon
boor	boor
boorish	boorish
boors	boor
boot	boot
booted	boot
booties	booti
bootless	bootless
boots	boot
booty	booti
bor	bor
bora	bora
borachio	borachio
bordeaux	bordeaux
border	border
bordered	border
borderers	border
borders	border
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boreas	borea
bores	bore
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born	born
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boroughs	borough
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borrower	borrow
borrowing	borrow
borrows	borrow
bosko	bosko
boskos	bosko
bosky	boski
bosom	bosom
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boson	boson
boss	boss
bosworth	bosworth
botch	botch
botcher	botcher
botches	botch
botchy	botchi
both	both
bots	bot
bottle	bottl
bottled	bottl
bottles	bottl

bottom	bottom
bottomless	bottomless
bottoms	bottom
bouciqualt	bouciqualt
bouge	boug
bough	bough
boughs	bough
bought	bought
bounce	bounc
bouncing	bounc
bound	bound
bounded	bound
bounden	bounden
boundeth	boundeth
bounding	bound
boundless	boundless
bounds	bound
bounteous	bounteou
bounteously	bounteous
bounties	bounti
bountiful	bounti
bountifully	bountifulli
bounty	bounti
bourbier	bourbier
bourbon	bourbon
bourchier	bourchier
bourdeaux	bourdeaux
ourn	ourn
bout	bout
bouts	bout
bove	bove
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bowcase	bowcas
bowed	bow
bowels	bowel
bower	bower
bowing	bow
bowl	bowl
bowler	bowler
bowling	bowl
bowls	bowl
bows	bow
bowsprit	bowsprit
bowstring	bowstr
box	box
boxes	box
boy	boi
boyet	boyet

boyish	boyish
boys	boi
brabant	brabant
brabantio	brabantio
brabble	brabbl
brabbler	brabbler
brac	brac
brace	brace
bracelet	bracelet
bracelets	bracelet
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bracy	braci
brag	brag
bragg	bragg
braggardism	braggard
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bragless	bragless
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braid	braid
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brained	brain
brainford	brainford
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brainless	brainless
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brainsick	brainsick
brainsickly	brainsickli
brake	brake
brakenbury	brakenburi
brakes	brake
brambles	brambl
bran	bran
branch	branch
branches	branch
branchless	branchless
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brandish	brandish
brandon	brandon
brands	brand
bras	bra
brass	brass
brassy	brassi

brat	brat
brats	brat
brav	brav
brave	brave
braved	brave
bravely	brave
braver	braver
bravery	braveri
braves	brave
bravest	bravest
braving	brave
brawl	brawl
brawler	brawler
brawling	brawl
brawls	brawl
brawn	brawn
brawns	brawn
bray	brai
braying	brai
braz	braz
brazen	brazen
brazier	brazier
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breaches	breach
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breadth	breadth
break	break
breaker	breaker
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breasted	breast
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breastplate	breastplat
breasts	breast
breath	breath
breathe	breath
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breathless	breathless
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bred	bred

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breeches	breech
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breeze	breez
breff	breff
bretagne	bretagn
brethen	brethen
bretheren	bretheren
brethren	brethren
brevis	brevi
brevity	breviti
brew	brew
brewage	brewag
brewer	brewer
brewers	brewer
brewing	brew
brews	brew
briareus	briareu
briars	briar
brib	brib
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briber	briber
bribes	bribe
brick	brick
bricklayer	bricklay
bricks	brick
bridal	bridal
bride	bride
bridegroom	bridegroom
bridegrooms	bridegroom
brides	bride
bridge	bridg
bridgenorth	bridgenorth
bridges	bridg
bridget	bridget
bridle	bridl
bridled	bridl
brief	brief
brieger	brieger
briefest	briefest
briefly	briefli
briefness	brief

brier	brier
briers	brier
brigandine	brigandin
bright	bright
brighten	brighten
brightest	brightest
brightly	brightli
brightness	bright
brim	brim
brimful	brim
brims	brim
brimstone	brimston
brinded	brind
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bringer	bringer
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bringings	bring
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brinish	brinish
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brisky	briski
bristle	bristl
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bristol	bristol
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britann	britann
britannes	britann
british	british
briton	briton
britons	briton
brittany	brittani
brittle	brittl
broach	broach
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broad	broad
broader	broader
broadside	broadsid
brocas	broca
brock	brock
brogues	brogu
broil	broil
broiling	broil
broils	broil

broke	broke
broken	broken
brokenly	brokenli
broker	broker
brokers	broker
brokes	broke
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brooch	brooch
brooches	brooch
brood	brood
brooded	brood
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brook	brook
brooks	brook
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broomstaff	broomstaff
broth	broth
brothel	brothel
brother	brother
brotherhood	brotherhood
brotherhoods	brotherhood
brotherly	brotherli
brothers	brother
broths	broth
brought	brought
brow	brow
brown	brown
browner	browner
brownist	brownist
browny	browni
brows	brow
browse	brows
browsing	brows
bruise	bruise
bruised	bruise
bruises	bruise
bruising	bruise
bruit	bruit
bruted	bruit
brundusium	brundusium
brunt	brunt
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brushes	brush
brute	brute
brutish	brutish
brutus	brutu
bubble	bubbl

bubbles	bubbl
bubbling	bubbl
bubukles	bubukl
buck	buck
bucket	bucket
buckets	bucket
bucking	buck
buckingham	buckingham
buckle	buckl
buckled	buckl
buckler	buckler
bucklers	buckler
bucklersbury	bucklersburi
buckles	buckl
buckram	buckram
bucks	buck
bud	bud
budded	bud
budding	bud
budge	budg
budger	budger
budget	budget
buds	bud
buff	buff
buffet	buffet
buffeting	buffet
buffets	buffet
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bugbear	bugbear
bugle	bugl
bugs	bug
build	build
builded	build
buildeth	buildeth
building	build
buildings	build
builds	build
built	built
bulk	bulk
bulks	bulk
bull	bull
bullcalf	bullcalf
bullen	bullen
bullens	bullen
bullet	bullet
bullets	bullet
bullocks	bullock
bulls	bull

bully	bulli
bulmer	bulmer
bulwark	bulwark
bulwarks	bulwark
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bumbast	bumbast
bump	bump
bumper	bumper
bums	bum
bunch	bunch
bunches	bunch
bundle	bundl
bung	bung
bunghole	bunghol
bungle	bungl
bunting	bunt
buoy	buoi
bur	bur
burbolt	burbolt
burd	burd
burden	burden
burdened	burden
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burdenous	burden
burdens	burden
burgh	burgh
burgher	burgher
burghers	burgher
burglary	burglari
burgomasters	burgomast
burgonet	burgonet
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burial	burial
buried	huri
burier	burier
buriest	buriest
burly	burli
burn	burn
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burnet	burnet
burneth	burneth
burning	burn
burnish	burnish
burns	burn
burnt	burnt
burr	burr
burrows	burrow
burs	bur

burst	burst
bursting	burst
bursts	burst
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burthens	burthen
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bury	huri
burying	huri
bush	bush
bushels	bushel
bushes	bush
bushy	bushi
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busily	busili
business	busin
business	busi
businesses	busi
buskin	buskin
busky	buski
buss	buss
busses	buss
bussing	buss
bustle	bustl
bustling	bustl
busy	busi
but	but
butcheed	butche
butcher	butcher
butchered	butcher
butcheries	butcheri
butcherly	butcherli
butchers	butcher
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butler	butler
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butter	butter
battered	butter
butterflies	butterfli
butterfly	butterfli
butterwoman	butterwoman
battery	butteri
buttock	buttock
buttocks	buttock
button	button
buttonhole	buttonhol
buttons	button
buttrass	buttrass
buttry	buttri

butts	butt
buxom	buxom
buy	bui
buyer	buyer
buying	bui
buys	bui
buzz	buzz
buzzard	buzzard
buzzards	buzzard
buzzers	buzzer
buzzing	buzz
by	by
bye	bye
byzantium	byzantium
c	c
ca	ca
cabbage	cabbag
cabileros	cabilero
cabin	cabin
cabins	cabin
cable	cabl
cables	cabl
cackling	cackl
cacodemon	cacodemon
caddis	caddi
caddisses	caddiss
cade	cade
cadence	cadenc
cadent	cadent
caedes	cade
cadmus	cadmu
caduceus	caduceu
cadwal	cadwal
cadwallader	cadwallad
caelius	caeliu
caelo	caelo
caesar	caesar
caesarion	caesarion
caesars	caesar
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cain	cain
caithness	caith
caitiff	caitiff
caitiffs	caitiff
caius	caiu
cak	cak

cake	cake
cakes	cake
calaber	calab
calais	calai
calamities	calam
calamity	calam
calchas	calcha
calculate	calcul
calen	calen
calendar	calendar
calendars	calendar
calf	calf
caliban	caliban
calibans	caliban
calipolis	calipoli
cality	caliti
caliver	caliv
call	call
callat	callat
called	call
callet	callet
calling	call
calls	call
calm	calm
calmest	calmest
calmly	calmli
calmness	calm
calms	calm
calpurnia	calpurnia
calumniate	calumni
calumniating	calumni
calumnious	calumni
calumny	calumni
calve	calv
calved	calv
calves	calv
calveskins	calveskin
calydon	calydon
cam	cam
cambio	cambio
cambria	cambria
cambric	cambric
cambrics	cambric
cambridge	cambridg
cambyses	cambys
came	came
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camelot	camelot

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camest	camest
camillo	camillo
camlet	camlet
camomile	camomil
camp	camp
campeius	campeiu
camping	camp
camps	camp
can	can
canakin	canakin
canaries	canari
canary	canari
cancel	cancel
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cancelling	cancel
cancels	cancel
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candidatus	candidatu
candied	candi
candle	candl
candles	candl
candlesticks	candlestick
candy	candi
canidius	canidiu
cank	cank
canker	canker
cankerblossom	cankerblossom
cankers	canker
cannibally	cannib
cannibals	cannib
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cannoneer	cannon
cannons	cannon
cannot	cannot
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canoniz	canoniz
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canons	canon
canopied	canopi
canopies	canopi
canopy	canopi
canst	canst
canstick	canstick
canterbury	canterburi
cantle	cantl

cantons	canton
canus	canu
canvas	canva
canvass	canvass
canzonet	canzonet
cap	cap
capability	capabl
capable	capabl
capacities	capac
capacity	capac
caparison	caparison
capdv	capdv
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capel	capel
capels	capel
caper	caper
capers	caper
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caphis	caphi
capilet	capilet
capitaine	capitain
capital	capit
capite	capit
capitol	capitol
capitulate	capitul
capocchia	capocchia
capon	capon
capons	capon
capp	capp
cappadocia	cappadocia
capriccio	capriccio
capricious	caprici
caps	cap
capt	capt
captain	captain
captains	captain
captainship	captainship
captious	captiou
captivate	captiv
captivated	captiv
captivates	captiv
captive	captiv
captives	captiv
captivity	captiv
captum	captum
capucius	capuciu
capulet	capulet
capulets	capulet

car	car
carack	carack
caracks	carack
carat	carat
caraways	carawai
carbonado	carbonado
carbuncle	carbuncl
carbuncled	carbuncl
carbuncles	carbuncl
carcanet	carcanet
carcase	carcas
carcases	carcas
carcass	carcass
carcasses	carcass
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cardecue	cardecu
carded	card
carders	carder
cardinal	cardin
cardinally	cardin
cardinals	cardin
cardmaker	cardmak
cards	card
carduus	carduu
care	care
cared	care
career	career
careers	career
careful	care
carefully	carefulli
careless	careless
carelessly	carelessli
carelessness	careless
cares	care
caret	caret
cargo	cargo
carl	carl
carlisle	carlisl
carlot	carlot
carman	carman
carmen	carmen
carnal	carnal
carnally	carnal
carnarvonshire	carnarvonshir
carnation	carnat
carnations	carnat
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carous	carou

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caroused	carous
carouses	carous
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carper	carper
carpet	carpet
carpets	carpet
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carriage	carriag
carriages	carriag
carried	carri
carrier	carrier
carriers	carrier
carries	carri
carrion	carrion
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carry	carri
carrying	carri
cars	car
cart	cart
carters	carter
carthage	carthag
carts	cart
carv	carv
carve	carv
carved	carv
carver	carver
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fickle	fickl
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fico	fico
fiction	fiction
fiddle	fiddl
fiddler	fiddler
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fish	fish
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foreknowledge	foreknowledg

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frighting	fright
frights	fright
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frosts	frost
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froward	froward
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frowning	frown
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frugal	frugal
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fruitful	fruit
fruitfully	fruitfulli
fruitfulness	fruit
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fruitless	fruitless
fruits	fruit
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fulfilling	fulfil
fulfils	fulfil
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fuller	fuller
fullers	fuller
fullest	fullest
fullness	full
fully	fulli
fulness	ful
fulsome	fulsom
fulvia	fulvia
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fun	fun
function	function
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funeral	funer
funerals	funer
fur	fur
furbish	furbish
furies	furi
furious	furiou
furlongs	furlong
furnace	furnac
furnaces	furnac
furnish	furnish
furnished	furnish
furnishings	furnish
furniture	furnitur
furnival	furniv
furor	furor
furr	furr
furrow	furrow
furrowed	furrow
furrows	furrow
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further	further
furtherance	further
furtherer	further
furthermore	furthermor
furthest	furthest
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fust	fust
fustian	fustian
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gabble	gabbl
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gabriel	gabriel
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gained	gain
gainer	gainer
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gains	gain
gainsaid	gainsaid
gainsay	gainsai
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gainsays	gainsai
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gait	gait
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galathe	galath
gale	gale
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gallant	gallant
gallantly	gallantli
gallantry	gallantri
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galled	gall
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galley	gallei
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gallimaufry	gallimaufri
galling	gall
gallons	gallon
gallop	gallop
galloping	gallop
gallops	gallop
gallow	gallow
galloway	gallowai
gallowglasses	gallowglass
gallows	gallow
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gam	gam
gambol	gambol
gambold	gambold
gambols	gambol
gamboys	gamboi
game	game
gamers	gamer
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gamesome	gamesom
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gaming	game
gammon	gammon
gamut	gamut
gan	gan
gangren	gangren
ganymede	ganymed
gaol	gaol
gaoler	gaoler
gaolers	gaoler
gaols	gaol
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gape	gape
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gar	gar
garb	garb
garbage	garbag
garboils	garboil
garcon	garcon
gard	gard
garde	gard
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gardeners	garden
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gardiner	gardin
gardon	gardon
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garter	garter
garterd	garterd
gartering	garter
garters	garter
gascony	gasconi
gash	gash
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gaskins	gaskin
gasp	gasp
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gasted	gast
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gathers	gather
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gaultree	gaultre
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gent	gent
gentilhomme	gentilhomm
gentility	gentil
gentle	gentl
gentlefolks	gentlefolk
gentleman	gentleman
gentlemanlike	gentlemanlik
gentlemen	gentlemen
gentleness	gentl
gentler	gentler

gentles	gentl
gentlest	gentlest
gentlewoman	gentlewoman
gentlewomen	gentlewomen
gently	gentli
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george	georg
gerard	gerard
germaines	germain
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gertrude	gertrud
gest	gest
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gets	get
getter	getter
getting	get
ghastly	ghastli
ghost	ghost
ghosted	ghost
ghostly	ghostli
ghosts	ghost
gi	gi
giant	giant
giantess	giantess
giantlike	giantlik
giants	giant
gib	gib
gibber	gibber
gibbet	gibbet
gibbets	gibbet
gibe	gibe
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giglets	giglet
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ginger	ginger
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gingerly	gingerli
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gins	gin
gioucestershire	gioucestershir
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gipsies	gipsi
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girls	girl
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giver	giver
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gives	give
givest	givest
giveth	giveth
giving	give
givings	give
glad	glad
gladded	glad

gladding	glad
gladly	gladli
gladness	glad
glamis	glami
glanc	glanc
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glanders	glander
glansdale	glansdal
glare	glare
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glass	glass
glasses	glass
glassy	glassi
glaz	glaz
glazed	glaze
gleams	gleam
glean	glean
gleaned	glean
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gleeks	gleek
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glideth	glideth
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glimmers	glimmer
glimpse	glimps
glimpses	glimps
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glisters	glisten
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glittering	glitter
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gloomy	gloomi
glories	glori
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glorious	gloriou
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glory	glori
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glosses	gloss
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gloucester	gloucest
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glove	glove
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glowworm	glowworm
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gnaws	gnaw
go	go
goad	goad
goaded	goad
goads	goad
goal	goal

goat	goat
goatish	goatish
goats	goat
gobbets	gobbet
gobbo	gobbo
goblet	goblet
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goblins	goblin
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godden	godden
goddess	goddess
goddesses	goddess
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godfather	godfath
godfathers	godfath
godhead	godhead
godlike	godlik
godliness	godli
godly	godli
godmother	godmoth
gods	god
godson	godson
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goffe	goff
gogs	gog
going	go
gold	gold
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goldenly	goldenli
goldsmith	goldsmith
goldsmiths	goldsmith
golgotha	golgotha
goliases	goliias
goliath	goliath
gon	gon
gondola	gondola
gondolier	gondoli
gone	gone
goneril	goneril
gong	gong
gonzago	gonzago
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goodfellow	goodfellow
goodlier	goodlier
goodliest	goodliest
goodly	goodli
goodman	goodman
goodness	good
goodnight	goodnight
goodrig	goodrig
goods	good
goodwife	goodwif
goodwill	goodwil
goodwin	goodwin
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goodyear	goodyear
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goose	goos
gooseberry	gooseberri
goosequills	goosequil
goot	goot
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gorbellied	gorbelli
gorboduc	gorboduc
gordian	gordian
gore	gore
gored	gore
gorg	gorg
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gorgeous	gorgeou
gorget	gorget
gorging	gorg
gorgon	gorgon
gormandize	gormand
gormandizing	gormand
gory	gori
gosling	gosl
gospel	gospel
gospels	gospel
goss	goss
gossamer	gossam
gossip	gossip
gossiping	gossip
gossiplate	gossiplate
gossips	gossip
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goths	goth
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gourd	gourd
gout	gout
gouts	gout
gouty	gouti
govern	govern
governance	govern
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governess	gover
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governor	governor
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governs	govern
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graceful	grace
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gradation	gradat
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grained	grain
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gramercies	gramerci
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grammar	grammar
grand	grand
grandam	grandam
grandame	grandam
grandchild	grandchild
grande	grand
grandeur	grandeur
grandfather	grandfath
grandjurors	grandjuror
grandmother	grandmoth
grandpre	grandpr
grandsir	grandsir

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grant	grant
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grants	grant
grape	grape
grapes	grape
grapple	grappl
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grasps	grasp
grass	grass
grasshoppers	grasshopp
grassy	grassi
grate	grate
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grateful	grate
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gratiano	gratiano
gratify	gratifi
gratii	gratii
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gratitude	gratitud
gratulate	gratul
grav	grav
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gravediggers	gravedigg
gravel	gravel
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graves	grave
gravest	gravest
gravestone	graveston
gravities	graviti
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gravy	gravi
gray	grai
graymalkin	graymalkin

graz	graz
graze	graze
grazed	graze
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grease	greas
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greasily	greasili
greasy	greasi
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greater	greater
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greeks	greek
green	green
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greens	green
greensleeves	greensleev
greenwich	greenwich
greenwood	greenwood
greet	greet
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greetings	greet
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greg	greg
gregory	gregori
gremio	gremio
grew	grew
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greybeard	greybeard
greybeards	greybeard
greyhound	greyhound
greyhounds	greyhound
grief	grief
griefs	grief

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grievance	grievanc
grievances	grievanc
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grievingly	grievingli
grievous	grievou
grievously	grievous
griffin	griffin
griffith	griffith
grim	grim
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grimly	grimli
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grindstone	grindston
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grissel	grissel
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gros	gro
gross	gross
grosser	grosser
grossly	grossli
grossness	gross
ground	ground
grounded	ground

groundlings	groundl
grounds	ground
grove	grove
grovel	grovel
grovelling	grovel
groves	grove
grow	grow
groweth	groweth
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grub	grub
grubb	grubb
grubs	grub
grudge	grudg
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gruel	gruel
grumble	grumbl
grumblest	grumblest
grumbling	grumbl
grumblings	grumbl
grumio	grumio
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grunt	grunt
gualtier	gualtier
guard	guard
guardage	guardag
guardant	guardant
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guardian	guardian
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guardsman	guardsman
gud	gud
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guerdon	guerdon
guerra	guerra
guess	guess
guesses	guess
guessingly	guessingli
guest	guest
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guiana	guiana
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guiderius	guideriu
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guidon	guidon
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guilders	guilder
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guiled	guil
guileful	guil
guilfords	guilford
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guiltian	guiltian
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guiltily	guiltili
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guilts	guilt
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guinever	guinev
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gunpowder	gunpowd
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gurney	gurnei
gust	gust
gusts	gust
gusty	gusti
guts	gut
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guynes	guyn
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gypsy	gypsi
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haberdasher	haberdash
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habitation	habit
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had	had
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haggards	haggard
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hailstone	hailston
hailstones	hailston
hair	hair
hairless	hairless
hairs	hair
hairy	hairi
hal	hal
halberd	halberd
halberds	halberd
halcyon	halcyon
hale	hale
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half	half
halfcan	halfcan

halfpence	halfpenc
halfpenny	halfpenni
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halidom	halidom
hall	hall
halloa	halloa
halloing	hallo
hallond	hallond
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hallowmas	hallowma
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hammers	hammer
hamper	hamper
hampton	hampton
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hamstring	hamstr
hand	hand
handed	hand
handful	hand
handicraft	handicraft
handicraftsmen	handicraftsmen
handing	hand
handiwork	handiwork
handkercher	handkerch
handkerchers	handkerch
handkerchief	handkerchief
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handling	handl
handmaid	handmaid
handmaids	handmaid
hands	hand
handsaw	handsaw
handsome	handsom
handsomely	handsom
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handwriting	handwrit
handy	handi
hang	hang
hanged	hang
hangers	hanger
hangeth	hangeth
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hangings	hang
hangman	hangman
hangmen	hangmen
hangs	hang
hannibal	hannib
hap	hap
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haply	hapli
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harbinger	harbing
harbingers	harbing
harbor	harbor
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harbouring	harbour
harbours	harbour
harcourt	harcourt
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hardness	hard
hardocks	hardock
hardy	hardi
hare	hare
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hares	hare
harfleur	harfleur
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harlot	harlot
harlotry	harlotri
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harpy	harpi
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hart	hart
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harvest	harvest
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hasting	hast
hastings	hast
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hatch	hatch

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hatchment	hatchment
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hatred	hatr
hats	hat
haud	haud
hauf	hauf
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haughtiness	haughti
haughty	haughti
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haunches	haunch
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haunting	haunt
haunts	haunt
hautboy	hautboi
hautboys	hautboi
have	have
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havings	have
havior	havior
haviour	haviour
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hawking	hawk
hawks	hawk
hawthorn	hawthorn
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headborough	headborough
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headier	headier
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headsman	headsman
headstrong	headstrong
heady	headi
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healed	heal
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heals	heal
health	health
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healths	health
healthsome	healthsom
healthy	healthi
heap	heap
heaping	heap
heaps	heap
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hearers	hearer
hearest	hearest
heareth	heareth
hearing	hear
hearings	hear
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hearken	hearken
hearkens	hearken
hears	hear
hearsay	hearsai
hearse	hears
hearsed	hears
hearst	hearst
heart	heart
heartache	heartach
heartbreak	heartbreak
heartbreaking	heartbreak
hearted	heart
hearten	hearten

hearth	hearth
hearths	hearth
heartily	heartili
heartiness	hearti
heartless	heartless
heartlings	heartl
heartly	heartli
hearts	heart
heartsick	heartsick
heartstrings	heartstr
heartly	hearti
heat	heat
heated	heat
heath	heath
heathen	heathen
heathenish	heathenish
heating	heat
heats	heat
heauties	heauti
heav	heav
heave	heav
heaved	heav
heaven	heaven
heavenly	heavenli
heavens	heaven
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interchange	interchang
interchangeably	interchang
interchangement	interchang
interchanging	interchang
interdiction	interdict
interest	interest
interim	interim
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interior	interior
interjections	interject
interjoin	interjoin
interlude	interlud
intermingle	intermingl
intermission	intermiss
intermissive	intermiss
intermit	intermit
intermix	intermix
intermixed	intermix

interpose	interpos
interposer	interpos
interposes	interpos
interpret	interpret
interpretation	interpret
interpreted	interpret
interpreter	interpret
interpreters	interpret
interprets	interpret
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interrogatories	interrogatori
interrupt	interrupt
interrupted	interrupt
interrupter	interrupt
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interruption	interrupt
interrupts	interrupt
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intervallums	intervallum
interview	interview
intestate	intest
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intimate	intim
intimation	intim
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into	into
intolerable	intoler
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invent	invent
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inventor	inventor
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inventory	inventori
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invincible	invinc
inviolable	inviol
invised	invis
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invoked	invok
invulnerable	invulner
inward	inward
inwardly	inwardli
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irksome	irksom
iron	iron
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irreconcil	irreconcil
irrecoverable	irrecover
irregular	irregular
irregulous	irregul
irreligious	irreligi
irremovable	irremov
irreparable	irrepar
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jack	jack
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jacob	jacob
jade	jade
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jakes	jake
jamany	jamani
james	jame
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jane	jane
jangled	jangl
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january	januari
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jawbone	jawbon

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jelly	jelli
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jephtha	jephtha
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jeshu	jeshu
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jezebel	jezebel
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jingling	jingl
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job	job
jockey	jockey
jocund	jocund
jog	jog
jogging	jog
john	john
johns	john
join	join
joinder	joinder
joined	join
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joineth	joineth
joins	join
joint	joint
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jointly	jointli
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jollity	jolliti
jolly	jolli
jolt	jolt
joltheads	jolthead
jordan	jordan
joseph	joseph
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jot	jot
jour	jour
jourdain	jourdain
journal	journal
journey	journei
journeying	journei
journeyman	journeyman
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jove	jove
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jovial	jovial
jowl	jowl
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joyfully	joyfulli
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judicious	judici
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jugs	jug
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juliet	juliet
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julio	julio
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july	juli
jump	jump
jumpeth	jumpeth
jumping	jump
jumps	jump
june	june
junes	june
junior	junior
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junkets	junket
juno	juno
jupiter	jupit
jure	jure
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jurisdiction	jurisdict
juror	juror
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jury	juri
jurymen	jurymen
just	just
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justification	justif
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jutting	jut
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kam	kam
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kecksies	kecksi
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keepdown	keepdown
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keeps	keep
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kern	kern
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kersey	kersei
kettle	kettl
kettledrum	kettledrum
kettledrums	kettledrum
key	kei
keys	kei
kibe	kibe
kibes	kibe
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kickshaws	kickshaw
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kidney	kidnei
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killlingworth	killlingworth
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kiln	kiln
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kinder	kinder
kindest	kindest
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kindling	kindl
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kingdom	kingdom
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kinsman	kinsman
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kitchens	kitchen
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kj	kj
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knacks	knack
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knave	knave
knaveries	knaveri
knavery	knaveri
knaves	knave
knavish	knavish
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kneel	kneel
kneeling	kneel
kneels	kneel
knees	knee
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knew	knew
knewest	knewest

knife	knife
knight	knight
knighted	knight
knighthood	knighthood
knighthoods	knighthood
knightly	knightli
knights	knight
knit	knit
knits	knit
knitters	knitter
knitteth	knitteth
knives	knive
knobs	knob
knock	knock
knocking	knock
knocks	knock
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knoll	knoll
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knots	knot
knotted	knot
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knower	knower
knowest	knowest
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knowingly	knowingli
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knowledge	knowledg
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label	label
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labor	labor
laboring	labor
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labour	labour
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labourer	labour
labourers	labour
labouring	labour
labours	labour
laboursome	laboursom

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labyrinth	labyrinth
lac	lac
lace	lace
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lacedaemon	lacedaemon
laces	lace
lacies	laci
lack	lack
lackbeard	lackbeard
lacked	lack
lackey	lackei
lackeying	lackei
lackeys	lackei
lacking	lack
lacks	lack
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ladder	ladder
ladders	ladder
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laden	laden
ladies	ladi
lading	lade
lads	lad
lady	ladi
ladybird	ladybird
ladyship	ladyship
ladyships	ladyship
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laertes	laert
lafeu	lafeu
lag	lag
lagging	lag
laid	laid
lain	lain
laissez	laissez
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lakes	lake
lakin	lakin
lam	lam
lamb	lamb
lambert	lambert
lambkin	lambkin
lambkins	lambkin
lambs	lamb
lame	lame
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lament	lament
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lamentably	lament
lamentation	lament
lamentations	lament
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lammastide	lammastid
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lampass	lampass
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lancaster	lancast
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land	land
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landing	land
landless	landless
landlord	landlord
landmen	landmen
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lane	lane
lanes	lane
langage	langag
langley	langlei
langton	langton
language	languag
languageless	languageless
languages	languag
langues	langu
languish	languish
languished	languish
languishes	languish
languishing	languish
languishings	languish
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languor	languor
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lantern	lantern

lanterns	lantern
lanthorn	lanthorn
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lapis	lapi
lapland	lapland
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laps	lap
lapse	laps
lapsed	laps
lapsing	laps
lapwing	lapw
laquais	laquai
larded	lard
larder	larder
larding	lard
lards	lard
large	larg
largely	larg
largeness	larg
larger	larger
largess	largess
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larks	lark
larron	larron
lartius	lartiu
larum	larum
larums	larum
las	la
lascivious	lascivi
lash	lash
lass	lass
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last	last
lasted	last
lasting	last
lastly	lastli
lasts	last
latch	latch
latches	latch
late	late
lated	late
lately	late
later	later
latest	latest
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latin	latin
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latter	latter
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laud	laud
laudable	laudabl
laudis	laudi
laugh	laugh
laughable	laughabl
laughed	laugh
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laughs	laugh
laughter	laughter
launce	launc
launcelot	launcelot
launces	launc
launch	launch
laund	laund
laundress	laundress
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laurels	laurel
laurence	laurenc
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lavache	lavach
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lavender	lavend
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lavish	lavish
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lavolt	lavolt
lavoltas	lavolta
law	law
lawful	law
lawfully	lawfulli
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lawlessly	lawlessli
lawn	lawn
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lawrence	lawrenc
laws	law
lawyer	lawyer
lawyers	lawyer
lay	lai

layer	layer
layest	layest
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lazar	lazar
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lazarus	lazaru
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leagues	leagu
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leaning	lean
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leans	lean
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leapt	leapt
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learnedly	learnedli
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lease	leas
leases	leas
leash	leash
leasing	leas
least	least
leather	leather
leathern	leathern
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leaven	leaven
leavening	leaven
leaver	leaver
leaves	leav
leaving	leav
leavy	leavi
lecher	lecher
lecherous	lecher
lechers	lecher
lechery	lecheri
lecon	lecon
lecture	lectur
lectures	lectur
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legacies	legaci
legacy	legaci
legate	legat
legatine	legatin
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legerity	leger
leges	lege
legg	legg
legion	legion
legions	legion
legitimate	legitim
legitimation	legitim

legs	leg
leicester	leicest
leicestershire	leicestershir
leiger	leiger
leigers	leiger
leisure	leisur
leisurely	leisur
leisures	leisur
leman	leman
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lena	lena
lend	lend
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lendings	lend
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leontes	leont
leopard	leopard
leopards	leopard
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lepidus	lepidu
leprosy	leprosi
lequel	lequel
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lest	lest
lestrake	lestrak
let	let
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lethe	leth
lets	let
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letter	letter
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lettuce	lettuc
leur	leur
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levers	lever
leviathan	leviathan
leviathans	leviathan
levied	levi
levies	levi
levity	leviti
levy	levi
levying	levi
lewd	lewd
lewdly	lewdli
lewdness	lewd
lewdsters	lewdster
lewis	lewi
liable	liabl
liar	liar
liars	liar
libbard	libbard
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libels	libel
liberal	liber
liberality	liber
liberte	libert
liberties	liberti
libertine	libertin
libertines	libertin
liberty	liberti
library	librari
libya	libya

licence	licenc
licens	licen
license	licens
licentious	licenti
lichas	licha
licio	licio
lick	lick
licked	lick
licker	licker
lictors	lictor
lid	lid
lids	lid
lie	lie
lied	li
lief	lief
liefest	liefest
liege	lieg
liegeman	liegeman
liegemen	liegemen
lien	lien
lies	li
liest	liest
lieth	lieth
lieu	lieu
lieutenant	lieuten
lieutenantry	lieutenantri
lieutenants	lieuten
lieve	liev
life	life
lifeblood	lifeblood
lifeless	lifeless
lifelings	lifel
lift	lift
lifted	lift
lifter	lifter
lifteth	lifteth
lifting	lift
lifts	lift
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liggins	liggen
light	light
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lightness	light
lightning	lightn
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likelihood	likelihood
likelihoods	likelihood
likely	like
likeness	like
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likewise	likewis
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likings	like
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lim	lim
limander	limand
limb	limb
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limekilns	limekiln
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limps	limp
lin	lin
lincoln	lincoln
lincolnshire	lincolnshir
line	line
lineal	lineal
lineally	lineal
lineament	lineament
lineaments	lineament

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linens	linen
lines	line
ling	ling
lingare	lingar
linger	linger
lingered	linger
lingers	linger
linguist	linguist
lining	line
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links	link
linsey	linsei
linstock	linstock
linta	linta
lion	lion
lionel	lionel
lioness	lioness
lions	lion
lip	lip
lipp	lipp
lips	lip
lipsbury	lipsburi
liquid	liquid
liquor	liquor
liquorish	liquorish
liquors	liquor
lirra	lirra
lisbon	lisbon
lisp	lisp
lisping	lisp
list	list
listen	listen
listening	listen
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lither	lither
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littlest	littlest
liv	liv
live	live
lived	live
livelier	lively
livelihood	livelihood
livelong	livelong
lively	live

liver	liver
liveries	liveri
livers	liver
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lives	live
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livia	livia
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lizards	lizard
ll	ll
lll	lll
llous	llou
lnd	lnd
lo	lo
loa	loa
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loam	loam
loan	loan
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loathly	loathli
loathness	loath
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loathsomest	loathsomest
loaves	loav
lob	lob
lobbies	lobbi
lobby	lobbi
local	local
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lock	lock
locked	lock
locking	lock
lockram	lockram
locks	lock

locusts	locust
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lodovico	lodovico
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lofty	lofti
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logger	logger
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loins	loin
loiter	loiter
loiterer	loiter
loiterers	loiter
loitering	loiter
lolling	loll
lolls	loll
lombardy	lombardi
london	london
londoners	london
lone	lone
loneliness	loneli
lonely	lone
long	long
longaville	longavil
longboat	longboat
longed	long
longer	longer
longest	longest
longeth	longeth
longing	long
longings	long
longly	longli
longs	long
longtail	longtail
loo	loo
loof	loof
look	look
looked	look

looker	looker
lookers	looker
lookest	lookest
looking	look
looks	look
loon	loon
loop	loop
loos	loo
loose	loos
loosed	loos
loosely	loos
loosen	loosen
loosing	loos
lop	lop
lopp	lopp
loquitur	loquitur
lord	lord
lorded	lord
lording	lord
lordings	lord
lordliness	lordli
lordly	lordli
lords	lord
lordship	lordship
lordships	lordship
lorenzo	lorenzo
lorn	lorn
lorraine	lorrain
lorship	lorship
los	lo
lose	lose
loser	loser
losers	loser
loses	lose
losest	losest
loseth	loseth
losing	lose
loss	loss
losses	loss
lost	lost
lot	lot
lots	lot
lott	lott
lottery	lotteri
loud	loud
louder	louder
loudly	loudli
lour	lour

loureth	loureth
louring	lour
louse	lous
louses	lous
lousy	lousi
lout	lout
louted	lout
louts	lout
louvre	louvr
lov	lov
love	love
loved	love
lovedst	lovedst
level	level
lovelier	loveli
loveliness	loveli
lovell	level
lovely	love
lover	lover
loved	lover
lovers	lover
loves	love
lovest	lovest
loveth	loveth
loving	love
lovingly	lovingli
low	low
lowe	low
lower	lower
lowest	lowest
lowing	low
lowliness	lowli
lowly	lowli
lown	lown
lowness	low
loyal	loyal
loyally	loyal
loyalties	loyalti
loyalty	loyalti
lozel	lozel
lt	lt
lubber	lubber
lubberly	lubberli
luc	luc
luccicos	luccico
luce	luce
lucentio	lucentio
luces	luce

lucetta	lucetta
luciana	luciana
lucianus	lucianu
lucifer	lucif
lucifier	lucifi
lucilius	luciliu
lucina	lucina
lucio	lucio
lucius	luciu
luck	luck
luckier	luckier
luckiest	luckiest
luckily	luckili
luckless	luckless
lucky	lucki
lucre	lucr
lucrece	lucrec
lucretia	lucretia
lucullius	luculliu
lucullus	lucullu
lucy	luci
lud	lud
ludlow	ludlow
lug	lug
lugg	lugg
luggage	luggag
luke	luke
lukewarm	lukewarm
lull	lull
lulla	lulla
lullaby	lullabi
lulls	lull
lumbert	lumbert
lump	lump
lumpish	lumpish
luna	luna
lunacies	lunaci
lunacy	lunaci
lunatic	lunat
lunatics	lunat
lunes	lune
lungs	lung
lupercal	luperc
lurch	lurch
lure	lure
lurk	lurk
lurketh	lurketh
lurking	lurk

lurks	lurk
luscious	luscious
lush	lush
lust	lust
lusted	lust
luster	luster
lustful	lust
lustier	lustier
lustiest	lustiest
lustig	lustig
lustihood	lustihood
lustily	lustily
lustre	lustre
lustrous	lustrous
lusts	lust
lusty	lustily
lute	lute
lutes	lute
lutestring	lutestring
lutheran	lutheran
luxurious	luxurious
luxuriously	luxuriously
luxury	luxurious
ly	ly
lycaonia	lycaonia
lycurguses	lycurguses
lydia	lydia
lye	lye
lyen	lyen
lying	ly
lym	lym
lymoges	lymoges
lynn	lynn
lysander	lysander
m	m
ma	ma
maan	maan
mab	mab
macbeth	macbeth
maccabaeus	maccabaeus
macdonwald	macdonwald
macduff	macduff
mace	mace
macedon	macedon
maces	mace
machiavel	machiavel
machination	machination
machinations	machination

machine	machin
mack	mack
macmorris	macmorri
maculate	macul
maculation	macul
mad	mad
madam	madam
madame	madam
madams	madam
madcap	madcap
madded	mad
madding	mad
made	made
madeira	madeira
madly	madli
madman	madman
madmen	madmen
madness	mad
madonna	madonna
madrigals	madrig
mads	mad
maecenas	maecena
maggot	maggot
maggots	maggot
magic	magic
magical	magic
magician	magician
magistrate	magistr
magistrates	magistr
magnanimity	magnanim
magnanimous	magnanim
magni	magni
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magnificence	magnific
magnificent	magnific
magnifico	magnifico
magnificoes	magnifico
magnus	magnu
mahomet	mahomet
mahu	mahu
maid	maid
maiden	maiden
maidenhead	maidenhead
maidenheads	maidenhead
maidenhood	maidenhood
maidenhoods	maidenhood
maidenliest	maidenliest
maidenly	maidenli

maidens	maiden
maidhood	maidhood
maids	maid
mail	mail
mailed	mail
mails	mail
maim	maim
maimed	maim
maims	maim
main	main
maincourse	maincours
maine	main
mainly	mainli
mainmast	mainmast
mains	main
maintain	maintain
maintained	maintain
maintains	maintain
maintenance	mainten
mais	mai
maison	maison
majestas	majesta
majestee	majeste
majestic	majest
majestical	majest
majestically	majest
majesties	majesti
majesty	majesti
major	major
majority	major
mak	mak
make	make
makeless	makeless
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makers	maker
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maketh	maketh
making	make
makings	make
mal	mal
mala	mala
maladies	maladi
malady	maladi
malapert	malapert
malcolm	malcolm
malcontent	malcont
malcontents	malcont

male	male
maledictions	maledict
malefactions	malefact
malefactor	malefactor
malefactors	malefactor
males	male
malevolence	malevol
malevolent	malevol
malhecho	malhecho
malice	malic
malicious	malici
maliciously	malici
malign	malign
malignancy	malign
malignant	malign
malignantly	malignantli
malkin	malkin
mall	mall
mallard	mallard
mallet	mallet
mallows	mallow
malmsey	malmsei
malt	malt
maltworms	maltworm
malvolio	malvolio
mamillius	mamilliu
mammering	mammer
mammet	mammet
mammets	mammet
mammock	mammock
man	man
manacle	manacl
manacles	manacl
manage	manag
managed	manag
manager	manag
managing	manag
manakin	manakin
manchus	manchu
mandate	mandat
mandragora	mandragora
mandrake	mandrak
mandrakes	mandrak
mane	mane
manent	manent
manes	mane
manet	manet
manfully	manfulli

mangle	mangl
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mangles	mangl
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mangy	mangi
manhood	manhood
manhoods	manhood
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manifested	manifest
manifests	manifest
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manifoldly	manifoldli
manka	manka
mankind	mankind
manlike	manlik
manly	manli
mann	mann
manna	manna
manner	manner
mannerly	mannerli
manners	manner
manningtree	manningtre
mannish	mannish
manor	manor
manors	manor
mans	man
mansion	mansion
mansionry	mansionri
mansions	mansion
manslaughter	manslaught
mantle	mantl
mantled	mantl
mantles	mantl
mantua	mantua
mantuan	mantuan
manual	manual
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manus	manu
many	mani
map	map
mapp	mapp
maps	map
mar	mar
marble	marbl
marbled	marbl
marcade	marcad
marcellus	marcellu

march	march
marches	march
marcheth	marcheth
marching	march
marchioness	marchio
marchpane	marchpan
marcians	marcian
marcius	marciu
marcus	marcu
mardian	mardian
mare	mare
mares	mare
marg	marg
margarelon	margarelon
margaret	margaret
marge	marg
margent	margent
margery	margeri
maria	maria
marian	marian
mariana	mariana
maries	mari
marigold	marigold
mariner	marin
mariners	marin
maritime	maritim
marjoram	marjoram
mark	mark
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market	market
marketable	market
marketplace	marketplac
markets	market
marking	mark
markman	markman
marks	mark
marl	marl
marle	marl
marmoset	marmoset
marquess	marquess
marquis	marqui
marr	marr
marriage	marriag
marriages	marriag
married	marri
marries	marri
marring	mar
marrow	marrow

marrowless	marrowless
marrows	marrow
marry	marri
marrying	marri
mars	mar
marseilles	marseil
marsh	marsh
marshal	marshal
marshalsea	marshalsea
marshalship	marshalship
mart	mart
marted	mart
martem	martem
martext	martext
martial	martial
martin	martin
martino	martino
martius	martiu
martlemas	martlema
martlet	martlet
marts	mart
martyr	martyr
martyrs	martyr
marullus	marullu
marv	marv
marvel	marvel
marvell	marvel
marvellous	marvel
marvellously	marvel
marvels	marvel
mary	mari
mas	ma
masculine	masculin
masham	masham
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maskers	masker
masking	mask
masks	mask
mason	mason
masonry	masonri
masons	mason
masque	masqu
masquers	masquer
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mass	mass

massacre	massacr
massacres	massacr
masses	mass
massy	massi
mast	mast
master	master
master	master
masterdom	masterdom
masterest	masterest
masterless	masterless
masterly	masterli
masterpiece	masterpiec
masters	master
mastership	mastership
mastic	mastic
mastiff	mastiff
mastiffs	mastiff
masts	mast
match	match
matches	match
matcheth	matcheth
matching	match
matchless	matchless
mate	mate
mated	mate
mater	mater
material	materi
mates	mate
mathematics	mathemat
matin	matin
matron	matron
matrons	matron
matter	matter
matters	matter
matthew	matthew
mattock	mattock
mattress	mattress
mature	matur
maturity	matur
maud	maud
maudlin	maudlin
maugre	maugr
maul	maul
maund	maund
mauri	mauri
mauritania	mauritania
mauvais	mauvai
maw	maw

maws	maw
maxim	maxim
may	mai
mayday	maydai
mayest	mayest
mayor	mayor
maypole	maypol
mayst	mayst
maz	maz
maze	maze
mazed	maze
mazes	maze
mazzard	mazzard
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meacock	meacock
mead	mead
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meagre	meagr
meal	meal
meals	meal
mealy	meali
mean	mean
meanders	meander
meaner	meaner
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meaneth	meaneth
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meanings	mean
meanly	meanli
means	mean
meant	meant
meantime	meantim
meanwhile	meanwhil
measles	measl
measur	measur
measurable	measur
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measured	measur
measureless	measureless
measures	measur
measuring	measur
meat	meat
meats	meat
mechanic	mechan
mechanical	mechan
mechanicals	mechan

mechanics	mechan
mechante	mechant
med	med
medal	medal
meddle	meddl
meddler	meddler
meddling	meddl
mede	mede
medea	medea
media	media
mediation	mediat
mediators	mediat
medice	medic
medicinal	medicin
medicine	medicin
medicines	medicin
meditate	medit
meditates	medit
meditating	medit
meditation	medit
meditations	medit
mediterranean	mediterranean
mediterraneum	mediterraneum
medlar	medlar
medlars	medlar
meed	meed
meeds	meed
meek	meek
meekly	meekli
meekness	meek
meet	meet
meeter	meeter
meetest	meetest
meeting	meet
meetings	meet
meetly	meetli
meetness	meet
meets	meet
meg	meg
mehercle	mehercl
meilleur	meilleur
meiny	meini
meisen	meisen
melancholies	melancholi
melancholy	melancholi
melford	melford
mell	mell
mellifluous	melliflu

mellow	mellow
mellowing	mellow
melodious	melodi
melody	melodi
melt	melt
melted	melt
melteth	melteth
melting	melt
melts	melt
melun	melun
member	member
members	member
memento	memento
memorable	memor
memorandums	memorandum
memorial	memori
memorials	memori
memories	memori
memoriz	memoriz
memorize	memor
memory	memori
memphis	memphi
men	men
menac	menac
menace	menac
menaces	menac
menaphon	menaphon
menas	mena
mend	mend
mended	mend
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mends	mend
menecrates	menecr
menelaus	menelau
menenius	meneniu
mental	mental
menteith	menteith
mention	mention
mentis	menti
menton	menton
mephostophilus	mephostophilu
mer	mer
mercatante	mercatant
mercatio	mercatio
mercenaries	mercenari
mercenary	mercenari
mercer	mercer

merchandise	merchandis
merchandized	merchand
merchant	merchant
merchants	merchant
mercies	merci
merciful	merci
mercifully	mercifulli
merciless	merciless
mercurial	mercuri
mercuries	mercuri
mercury	mercuri
mercutio	mercutio
mercy	merci
mere	mere
mered	mere
merely	mere
merest	merest
meridian	meridian
merit	merit
merited	merit
meritorious	meritori
merits	merit
merlin	merlin
mermaid	mermaid
mermaids	mermaid
merops	merop
merrier	merrier
merriest	merriest
merrily	merrili
merriman	merriman
merriment	merriment
merriments	merriment
merriness	merri
merry	merri
mervailous	mervail
mes	me
mesh	mesh
meshes	mesh
mesopotamia	mesopotamia
mess	mess
message	messag
messages	messag
messala	messala
messaline	messalin
messenger	messeng
messengers	messeng
messes	mess
messina	messina

met	met
metal	metal
metals	metal
metamorphis	metamorphi
metamorphoses	metamorphos
metaphor	metaphor
metaphysical	metaphys
metaphysics	metaphys
mete	mete
metellus	metellu
meteor	meteor
meteors	meteor
meteyard	meteyard
metheglin	metheglin
metheglins	metheglin
methink	methink
methinks	methink
method	method
methods	method
methought	methought
methoughts	methought
metre	metr
metres	metr
metropolis	metropoli
mette	mett
mettle	mettl
mettled	mettl
meus	meu
mew	mew
mewed	mew
mewling	mewl
mexico	mexico
mi	mi
mice	mice
michael	michael
michaelmas	michaelma
micher	micher
miching	mich
mickle	mickl
microcosm	microcosm
mid	mid
midas	mida
middest	middest
middle	middl
middleham	middleham
midnight	midnight
midriff	midriff
midst	midst

midsummer	midsumm
midway	midwai
midwife	midwif
midwives	midwiv
miene	mienn
might	might
mightful	might
mightier	mightier
mightiest	mightiest
mightily	mightili
mightiness	mighti
mightst	mightst
mighty	mighti
milan	milan
milch	milch
mild	mild
milder	milder
mildest	mildest
mildew	mildew
mildews	mildew
mildly	mildli
mildness	mild
mile	mile
miles	mile
milford	milford
militarist	militarist
military	militari
milk	milk
milking	milk
milkmaid	milkmaid
milks	milk
milksops	milksop
milky	milki
mill	mill
mille	mill
miller	miller
milliner	millin
million	million
millioned	million
millions	million
mills	mill
millstones	millston
milo	milo
mimic	mimic
minc	minc
mince	minc
minces	minc
mincing	minc

mind	mind
minded	mind
mindng	mind
mindless	mindless
minds	mind
mine	mine
mineral	miner
minerals	miner
minerva	minerva
mines	mine
mingle	mingl
mingled	mingl
mingling	mingl
minikin	minikin
minim	minim
minime	minim
minimo	minimo
minimus	minimu
mining	mine
minion	minion
minions	minion
minist	minist
minister	minist
ministers	minist
ministration	ministr
minnow	minnow
minnows	minnow
minola	minola
minority	minor
minos	mino
minotaurs	minotaur
minstrel	minstrel
minstrels	minstrel
minstrelsy	minstrelsi
mint	mint
mints	mint
minute	minut
minutely	minut
minutes	minut
minx	minx
mio	mio
mir	mir
mirable	mirabl
miracle	miracl
miracles	miracl
miraculous	miracul
miranda	miranda
mire	mire

mirror	mirror
mirrors	mirror
mirth	mirth
mirthful	mirth
miry	miri
mis	mi
misadventur	misadventur
misadventure	misadventur
misanthropos	misanthropo
misapplied	misappli
misbecame	misbecam
misbecom	misbecom
misbecome	misbecom
misbegot	misbegot
misbegotten	misbegotten
misbeliever	misbeliev
misbelieving	misbeliev
misbhav	misbhav
miscall	miscal
miscalled	miscal
miscarried	miscarri
miscarries	miscarri
miscarry	miscarri
miscarrying	miscarri
mischance	mischanc
mischances	mischanc
mischief	mischief
mischiefs	mischief
mischievous	mischiev
misconceived	misconceiv
misconst	misconst
misconster	misconst
misconstruction	misconstruct
misconstrued	misconstru
misconstrues	misconstru
miscreant	miscreant
miscreate	miscreat
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misdeeds	misde
misdemean	misdemean
misdemeanours	misdemeanour
misdoubt	misdoubt
misdoubteth	misdoubteth
misdoubts	misdoubt
misenum	misenum
miser	miser
miserable	miser
miserably	miser

misericorde	misericord
miseries	miseri
misers	miser
misery	miseri
misfortune	misfortun
misfortunes	misfortun
misgive	misgiv
misgives	misgiv
misgiving	misgiv
misgoverned	misgovern
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misguide	misguid
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misplaces	misplac
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misprised	mispris
misprision	mispris
misprizing	mispriz
misproud	misproud
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misreport	misreport
miss	miss
missed	miss
misses	miss
misshap	misshap
misshapen	misshapen
missheathed	missheath
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missingly	missingli
missions	mission
missive	missiv
missives	missiv
misspoke	misspok
mist	mist
mista	mista

mistak	mistak
mistake	mistak
mistaken	mistaken
mistakes	mistak
mistaketh	mistaketh
mistaking	mistak
mistakings	mistak
mistemp	mistemp
mistempered	mistemp
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mistful	mist
misthink	misthink
misthought	misthought
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mistreadings	mistread
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mistresses	mistress
mistresss	mistresss
mistriship	mistriship
mistrust	mistrust
mistrusted	mistrust
mistrustful	mistrust
mistrusting	mistrust
mists	mist
misty	misti
misus	misu
misuse	misus
misused	misus
misuses	misus
mites	mite
mithridates	mithrid
mitigate	mitig
mitigation	mitig
mix	mix
mixed	mix
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mixtures	mixtur
mm	mm
mnd	mnd
moan	moan
moans	moan
moat	moat
moated	moat
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mock	mock
mockable	mockabl
mocker	mocker

mockeries	mockeri
mockers	mocker
mockery	mockeri
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mockvater	mockvat
mockwater	mockwat
model	model
modena	modena
moderate	moder
moderately	moder
moderation	moder
modern	modern
modest	modest
modesties	modesti
modestly	modestli
modesty	modesti
modicums	modicum
modo	modo
module	modul
moe	moe
moi	moi
moiety	moieti
moist	moist
moisten	moisten
moisture	moistur
moldwarp	moldwarp
mole	mole
molehill	molehil
moles	mole
molest	molest
molestation	molest
mollification	mollif
mollis	molli
molten	molten
molto	molto
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moment	moment
momentary	momentari
moming	mome
mon	mon
monachum	monachum
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monarchies	monarchi
monarchize	monarch
monarcho	monarcho
monarchs	monarch
monarchy	monarchi

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monastery	monasteri
monastic	monast
monday	mondai
monde	mond
money	monei
moneys	monei
mong	mong
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mongers	monger
monging	mong
mongrel	mongrel
mongrels	mongrel
mongst	mongst
monk	monk
monkey	monkei
monkeys	monkei
monks	monk
monmouth	monmouth
monopoly	monopoli
mons	mon
monsieur	monsieur
monsieurs	monsieur
monster	monster
monsters	monster
monstrous	monstrou
monstrously	monstrous
monstrousness	monstrous
monstruosity	monstruos
montacute	montacut
montage	montag
montague	montagu
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montant	montant
montez	montez
montferrat	montferrat
montgomery	montgomeri
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montjoy	montjoi
monument	monument
monumental	monument
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moon	moon
moonbeams	moonbeam
moonish	moonish
moonlight	moonlight
moons	moon
moonshine	moonshin
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moor	moor
moorfields	moorfield
moors	moor
moorship	moorship
mop	mop
mope	mope
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moral	moral
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mordake	mordak
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morgan	morgan
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news	new
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night	night
nightcap	nightcap
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nightgown	nightgown
nightingale	nightingal
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nightmare	nightmar
nights	night
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nihil	nihil
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norbery	norberi
norfolk	norfolk
norman	norman
normandy	normandi
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northampton	northampton
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northerly	northerli
northern	northern
northgate	northgat
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noverbs	noverb
novi	novi
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novum	novum
now	now
nowhere	nowher
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nuthook	nuthook
nutmeg	nutmeg
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nutshell	nutshel
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objections	object
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oblique	obliqu
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obscene	obscen
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occasion	occas
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ocular	ocular
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oddest	oddest
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odoriferous	odorifer
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oil	oil
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old	old
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olive	oliv
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olympian	olympian
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operant	oper
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opportune	opportun
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othello	othello
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oven	oven
over	over
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overblown	overblown

overboard	overboard
overbold	overbold
overborne	overborn
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overcame	overcam
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overcomes	overcom
overdone	overdon
overearnest	overearnest
overfar	overfar
overflow	overflow
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overhead	overhead
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overpass	overpass
overpeer	overp
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overspread	overspread
overstain	overstain
overswear	overswear
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overthrown	overthrown
overthrows	overthrow
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overture	overtur
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oyes	oy
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pac	pac
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painfully	painfulli
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patrimony	patrimoni
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patron	patron
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patroness	patro
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peflur	peflur
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permanent	perman
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peroration	peror
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persecutor	persecutor
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persuade	persuad
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phaethon	phaethon
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pheebus	pheebu
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philosophers	philosoph
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philostrate	philostr
philotus	philotu
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phoebe	phoeb
phoebus	phoebu
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phorbus	phorbu
photinus	photinu
phrase	phrase
phraseless	phraseless
phrases	phrase
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pinion	pinion
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plumpy	plumpi
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plus	plu
pluto	pluto
plutus	plutu
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pockets	pocket
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pody	podu
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poet	poet
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poetry	poetri
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poinards	poinard
poin	poin
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pointed	point
pointing	point
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poising	pois
poison	poison
poisoned	poison
poisoner	poison
poisoning	poison
poisonous	poison

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polack	polack
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poland	poland
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pollution	pollut
polonius	poloniu
poltroons	poltroon
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pomegranate	pomegran
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pompey	pompei
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pompous	pompou
pomps	pomp
pond	pond
ponder	ponder
ponderous	ponder

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poniard	poniard
poniards	poniard
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ponton	ponton
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poorest	poorest
poorly	poorli
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popilius	popiliu
popingay	popingai
popish	popish
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pops	pop
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popularity	popular
populous	popul
porch	porch
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poverty	poverti
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precepts	precept
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privacy	privaci
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probation	probat
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proclamations	proclam
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proculeius	proculeiu
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prodigality	prodig
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proditor	proditor
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profitable	profit
profitably	profit
profited	profit
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profitless	profitless
profits	profit
profound	profound
profoundest	profoundest
profoundly	profoundli
progenitors	progenitor
progeny	progeni
progne	progn
prognosticate	prognost
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progress	progress
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prolixious	prolixi
prolixity	prolix
prologue	prologu
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prolong	prolong
prolongs	prolong
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prometheus	prometheu

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promontory	promontori
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prompts	prompt
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prone	prone
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prononcez	prononcez
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pronounc	pronounc
pronounce	pronounc
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pronouncing	pronounc
pronouns	pronoun
proof	proof
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propagate	propag
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propend	propend
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proper	proper
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properly	properli
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prophesy	prophesi
prophesying	prophesi
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prophetess	prophetess
prophetic	prophet

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prophets	prophet
propinquity	propinqu
propontic	propont
proportion	proport
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propre	propr
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prorogued	prorogu
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prosecute	prosecut
prosecution	prosecut
proselytes	proselyt
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prosperity	prosper
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protector	protector
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protects	protect

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protheus	protheu
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provand	provand
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provok	provok
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provokes	provok
provoketh	provoketh
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provost	provost

prowess	prowess
prudence	prudenc
prudent	prudent
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psalm	psalm
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psalteries	psalteri
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ptolemy	ptolemi
public	public
publican	publican
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publicly	publicli
publicola	publicola
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pueritia	pueritia
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puissant	puissant
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puller	puller
pullet	pullet

pulling	pull
pulls	pull
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quests	quest
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quickly	quickli
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quicksands	quicksand

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quietness	quiet
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quoniam	quoniam
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rabbit	rabbit
rabble	rabbl
rabblement	rabblement
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rackers	racker
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rainy	rains
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rankly	rankli
rankness	rank
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rashly	rashli
rashness	rash
rat	rat
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ratifiers	ratifi
ratify	ratifi
rating	rate
rational	ration
ratolorum	ratolorum
rats	rat
ratsbane	ratsban
rattle	rattl
rattles	rattl
rattling	rattl
rature	ratur

raught	raught
rav	rav
rave	rave
ravel	ravel
raven	raven
ravening	raven
ravenous	raven
ravens	raven
ravenspurgh	ravenspurgh
raves	rave
ravin	ravin
raving	rave
ravish	ravish
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soak	soak
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soberly	soberli
sobriety	sobrieti
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sociable	sociabl

societies	societi
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socks	sock
socrates	socrat
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sol	sol
sola	sola
solace	solac
solanio	solanio
sold	sold
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soles	sole
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solicits	solicit
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soothers	soother
soothing	sooth
soothsay	soothsai
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sophisticated	sophist

sophy	sophi
sops	sop
sorcerer	sorcer
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sorrowest	sorrowest
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sorry	sorri
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soul	soul
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southam	southam
southampton	southampton
southerly	southerli
southern	southern
southward	southward
southwark	southwark
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sov	sov
sovereign	sovereign
sovereignest	sovereignest
sovereignly	sovereignli
sovereignty	sovereignti
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spark	spark
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special	special
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specially	special
specialties	specialti
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spectacle	spectacl
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speculative	specul
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speechless	speechless
speed	speed
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speeding	speed
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spencer	spencer
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spendthrift	spendthrift
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sperato	sperato
sperm	sperm
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sphinx	sphinx
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spider	spider
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spightfully	spightfulli
spigot	spigot
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spin	spin
spinii	spinii
spinners	spinner
spinster	spinster
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spirituality	spiritualti
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spoon	spoon
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squeaking	squeak
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stanchless	stanchless
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standards	standard
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staniel	staniel
stanley	stanlei
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stanzo	stanzo
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stepmothers	stepmoth
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sterile	steril
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sticking	stick
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stifle	stifl
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stitchery	stitcheri
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stoccata	stoccata
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stockfish	stockfish

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stockings	stock
stockish	stockish
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stoics	stoic
stokesly	stokesli
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stomach	stomach
stomachers	stomach
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ston	ston
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stonecutter	stonecutt
stones	stone
stonish	stonish
stony	stoni
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strachy	strachi
stragglers	straggler
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straight	straight
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straightway	straightwai
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strange	strang
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strangler	strangler
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strappado	strappado
straps	strap
stratagem	stratagem
stratagems	stratagem
stratford	stratford
strato	strato
straw	straw
strawberries	strawberri
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straws	straw
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stretching	stretch
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strengths	strength
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strict	strict
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stubborn	stubborn
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stupid	stupid
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sturdy	sturdi
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su	su
sub	sub
subcontracted	subcontract
subdu	subdu
subdue	subdu
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subject	subject
subjected	subject
subjection	subject
subjects	subject
submerg	submerg
submission	submiss
submissive	submiss
submit	submit
submits	submit
submitting	submit
suborn	suborn
subornation	suborn
suborned	suborn
subscrib	subscrib
subscribe	subscrib
subscribed	subscrib
subscribes	subscrib

subscription	subscript
subsequent	subsequ
subsidies	subsidi
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substance	substanc
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substantial	substanti
substitute	substitut
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subtile	subtil
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subtractors	subtractor
suburbs	suburb
subversion	subvers
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success	success
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successes	success
successful	success
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succession	success
successive	success
successively	success
successor	successor
successors	successor
succour	succour
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sufficiency	suffici
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sugar	sugar
sugarsop	sugarsop
suggest	suggest
suggested	suggest
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suggests	suggest
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suitable	suitabl
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suiting	suit
suitor	suitor
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suivez	suivez
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sully	sulli
sulph	sulph
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sum	sum
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summary	summari
summer	summer
summers	summer
summit	summit
summon	summon
summoners	summon
summons	summon
sumpter	sumpter
sumptuous	sumptuou
sumptuously	sumptuous
sums	sum
sun	sun
sunbeams	sunbeam
sunburning	sunburn
sunburnt	sunburnt
sund	sund
sunday	sundai
sundays	sundai
sunder	sunder
sunders	sunder
sundry	sundri
sung	sung
sunk	sunk
sunken	sunken
sunny	sunni
sunrising	sunris
suns	sun
sunset	sunset
sunshine	sunshin
sup	sup
super	super
superficial	superfici

superficially	superfici
superfluity	superflu
superfluous	superflu
superfluously	superflu
superflux	superflux
superior	superior
supernal	supern
supernatural	supernatur
superpraise	superprais
superscript	superscript
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superserviceable	superservic
superstition	superstit
superstitious	superstiti
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supersubtle	supersubtl
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supervisor	supervisor
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suppers	supper
suppertime	suppertim
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suppler	suppler
suppliance	supplianc
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suppliants	suppliant
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supporter	support
supporters	support
supporting	support
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supposal	suppos
suppose	suppos
supposed	suppos
supposes	suppos
supposest	supposest
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supposition	supposit
suppress	suppress
suppressed	suppress
suppresseth	suppresseth
supremacy	supremaci
supreme	suprem
sups	sup
sur	sur
surance	suranc
surcease	surceas
surd	surd
sure	sure
surecard	surecard
surely	sure
surer	surer
surest	surest
sureties	sureti
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surfeit	surfeit
surfeited	surfeit
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surfeiting	surfeit
surfeits	surfeit
surge	surg
surgeon	surgeon
surgeons	surgeon
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thousands	thousand
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through	through
throughfare	throughfar
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torchbearers	torchbear
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trinkets	trinket
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upstairs	upstair
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vienna	vienna
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vitruvio	vitruvio
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voluntaries	voluntari
voluntary	voluntari
voluptuously	voluptu
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whirlpool	whirlpool
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witches	witch
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wizards	wizard
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wolves	wolv
wolvish	wolvish
woman	woman
womanhood	womanhood
womanish	womanish
womankind	womankind
womanly	womanli
womb	womb
wombs	womb
womby	wombi
women	women
won	won
woncot	woncot
wond	wond
wonder	wonder
wondered	wonder
wonderful	wonder
wonderfully	wonderfulli
wondering	wonder
wonders	wonder
wondrous	wondrou
wondrously	wondrous
wont	wont
wonted	wont
woo	woo
wood	wood
woodbine	woodbin

woodcock	woodcock
woodcocks	woodcock
wooden	wooden
woodland	woodland
woodman	woodman
woodmonger	woodmong
woods	wood
woodstock	woodstock
woodville	woodvil
woed	woo
woer	woer
woers	woer
woes	woe
woof	woof
woeing	woo
woingly	woingli
wool	wool
woollen	woollen
woolly	woolli
woolsack	woolsack
woolsey	woolsei
woolward	woolward
woos	woo
wor	wor
worcester	worcest
word	word
words	word
wore	wore
worins	worin
work	work
workers	worker
working	work
workings	work
workman	workman
workmanly	workmanli
workmanship	workmanship
workmen	workmen
works	work
worky	worki
world	world
worldlings	worldl
worldly	worldli
worlds	world
worm	worm
worms	worm
wormwood	wormwood
wormy	wormi
worn	worn

worried	worri
worries	worri
worry	worri
worrying	worri
worse	wors
worser	worser
worship	worship
worshipful	worship
worshipfully	worshipfulli
worshipp	worshipp
worshipper	worshipp
worshippers	worshipp
worshippest	worshippest
worships	worship
worst	worst
worsted	worst
wort	wort
worth	worth
worthied	worthi
worthier	worthier
worthies	worthi
worthiest	worthiest
worthily	worthili
worthiness	worthi
worthless	worthless
worths	worth
worthy	worthi
worts	wort
wot	wot
wots	wot
wotting	wot
wouid	wouid
would	would
wouldest	wouldest
wouldst	wouldst
wound	wound
wounded	wound
wounding	wound
woundings	wound
woundless	woundless
wounds	wound
wouns	woun
woven	woven
wow	wow
wrack	wrack
wrackful	wrack
wrangle	wrangl
wrangler	wrangler

wranglers	wrangler
wrangling	wrangl
wrap	wrap
wrapp	wrapp
wraps	wrap
wrapt	wrapt
wrath	wrath
wrathful	wrath
wrathfully	wrathfulli
wraths	wrath
wreak	wreak
wreakful	wreak
wreaks	wreak
wreath	wreath
wreathed	wreath
wreathen	wreathen
wreaths	wreath
wreck	wreck
wrecked	wreck
wrecks	wreck
wren	wren
wrench	wrench
wrenching	wrench
wrens	wren
wrest	wrest
wrested	wrest
wresting	wrest
wrestle	wrestl
wrestled	wrestl
wrestler	wrestler
wrestling	wrestl
wretch	wretch
wretchcd	wretchcd
wretched	wretch
wretchedness	wretched
wretches	wretch
wring	wring
wringer	wringer
wringing	wring
wrings	wring
wrinkle	wrinkl
wrinkled	wrinkl
wrinkles	wrinkl
wrist	wrist
wrists	wrist
writ	writ
write	write
writer	writer

writers	writer
writes	write
writhled	writhl
writing	write
writings	write
writs	writ
written	written
wrong	wrong
wronged	wrong
wronger	wronger
wrongful	wrong
wrongfully	wrongfulli
wronging	wrong
wrongly	wrongli
wrongs	wrong
wronk	wronk
wrote	wrote
wroth	wroth
wrought	wrought
wrung	wrung
wry	wry
wrying	wry
wt	wt
wul	wul
wye	wye
x	x
xanthippe	xanthipp
xi	xi
xii	xii
xiii	xiii
xiv	xiv
xv	xv
y	y
yard	yard
yards	yard
yare	yare
yarely	yare
yarn	yarn
yaughan	yaughan
yaw	yaw
yawn	yawn
yawning	yawn
ycleped	yclepe
ycliped	yclipe
ye	ye
yea	yea
yead	yead
year	year

yearly	yearli
yearn	yearn
yearns	yearn
years	year
yeas	yea
yeast	yeast
yedward	yedward
yell	yell
yellow	yellow
yellowed	yellow
yellowing	yellow
yellowness	yellow
yellowes	yellow
yells	yell
yelping	yelp
yeoman	yeoman
yeomen	yeomen
yerk	yerk
yes	ye
yesterday	yesterdai
yesterdays	yesterdai
yesternight	yesternight
yesty	yesti
yet	yet
yew	yew
yield	yield
yield	yield
yielded	yield
yielder	yielder
yielders	yielder
yielding	yield
yields	yield
yok	yok
yoke	yoke
yoked	yoke
yokefellow	yokefellow
yokes	yoke
yoketh	yoketh
yon	yon
yond	yond
yonder	yonder
yongrey	yongrei
yore	yore
yorick	yorick
york	york
yorkists	yorkist
yorks	york
yorkshire	yorkshir

```

you        you
young      young
younger    younger
youngest   youngest
youngling  youngl
younglings youngl
youngly    youngli
younger    younker
your       your
yours     your
yourself  yourself
yourselves yourself
youth     youth
youthful  youth
youths    youth
youtli    youtli
zanies    zani
zany      zani
zeal      zeal
zealous   zealous
zeals     zeal
zed       zed
zenelophon zenelophon
zenith    zenith
zephyrs   zephyr
zir       zir
zo        zo
zodiac    zodiac
zodiacs   zodiac
zone      zone
zounds    zound
zwagger   zwagger
}

```

```
# Create a full-text index to use for testing the stemmer.
```

```
#
```

```
db close
```

```
sqlite3 db :memory:
```

```
db eval {
```

```
CREATE VIRTUAL TABLE t1 USING fts1(word, tokenize Porter);
```

```
}
```

```
foreach {pfrom pto} $porter_test_data {
```

```
do_test fts1porter-$pfrom {
```

```
execsql {
```

```
DELETE FROM t1_term;
```

```
DELETE FROM t1_content;
```

```
INSERT INTO t1(word) VALUES($pfrom);
```

```
SELECT term FROM t1_term;
}
} $pto
}
```

finish_test

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-
archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNIVkuI7/sqlite-src-3071700/test/fts1porter.test
No license file was found, but licenses were detected in source scan.
```

[public domain](copyright.html). No claim of ownership is made

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-
archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/faq.html
No license file was found, but licenses were detected in source scan.
```

SQLite is high-quality, public domain software. The goal of members can also request their own private, proprietary extensions

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-
archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/consortium.html
No license file was found, but licenses were detected in source scan.
```

```
{string currentfile exch readstring pop}executeonly def
```

Found in path(s):

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

```
/*
```

```
** CAPI3REF: Configuration Options
```

```
** KEYWORDS: {configuration option}
```

```
**
```

```
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
```

```
**
```

```
** New configuration options may be added in future releases of SQLite.
```

```
** Existing configuration options might be discontinued. Applications
```

```
** should check the return code from [sqlite3_config()] to make sure that
```

```
** the call worked. The [sqlite3_config()] interface will return a
```

```
** non-zero [error code] if a discontinued or unsupported configuration option
```

```
** is invoked.
```

```
**
```

```
** <dl>
```

** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Single-thread. In other words, it disables
** all mutexing and puts SQLite into a mode where it can only be used
** by a single thread. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
** configuration option.</dd>

**

** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Multi-thread. In other words, it disables
** mutexing on [database connection] and [prepared statement] objects.
** The application is responsible for serializing access to
** [database connections] and [prepared statements]. But other mutexes
** are enabled so that SQLite will be safe to use in a multi-threaded
** environment as long as no two threads attempt to use the same
** [database connection] at the same time. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>

**

** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>

**

** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mem_methods] structure. The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>

**

** `[[SQLITE_CONFIG_GETMALLOC]]` <dt>`SQLITE_CONFIG_GETMALLOC`</dt>

** <dd> ^(This option takes a single argument which is a pointer to an

** instance of the `[sqlite3_mem_methods]` structure. The `[sqlite3_mem_methods]`

** structure is filled with the currently defined memory allocation routines.)^

** This option can be used to overload the default memory allocation

** routines with a wrapper that simulations memory allocation failure or

** tracks memory usage, for example. </dd>

**

** `[[SQLITE_CONFIG_MEMSTATUS]]` <dt>`SQLITE_CONFIG_MEMSTATUS`</dt>

** <dd> ^This option takes single argument of type `int`, interpreted as a

** boolean, which enables or disables the collection of memory allocation

** statistics. ^(When memory allocation statistics are disabled, the

** following SQLite interfaces become non-operational:

**

** `[sqlite3_memory_used()]`

** `[sqlite3_memory_highwater()]`

** `[sqlite3_soft_heap_limit64()]`

** `[sqlite3_status()]`

**)^

** ^Memory allocation statistics are enabled by default unless SQLite is

** compiled with `[SQLITE_DEFAULT_MEMSTATUS]=0` in which case memory

** allocation statistics are disabled by default.

** </dd>

**

** `[[SQLITE_CONFIG_SCRATCH]]` <dt>`SQLITE_CONFIG_SCRATCH`</dt>

** <dd> ^This option specifies a static memory buffer that SQLite can use for

** scratch memory. There are three arguments: A pointer an 8-byte

** aligned memory buffer from which the scratch allocations will be

** drawn, the size of each scratch allocation (`sz`),

** and the maximum number of scratch allocations (`N`). The `sz`

** argument must be a multiple of 16.

** The first argument must be a pointer to an 8-byte aligned buffer

** of at least `sz*N` bytes of memory.

** ^SQLite will use no more than two scratch buffers per thread. So

** `N` should be set to twice the expected maximum number of threads.

** ^SQLite will never require a scratch buffer that is more than 6

** times the database page size. ^If SQLite needs needs additional

** scratch memory beyond what is provided by this configuration option, then

** `[sqlite3_malloc()]` will be used to obtain the memory needed.</dd>

**

** `[[SQLITE_CONFIG_PAGECACHE]]` <dt>`SQLITE_CONFIG_PAGECACHE`</dt>

** <dd> ^This option specifies a static memory buffer that SQLite can use for

** the database page cache with the default page cache implementation.

** This configuration should not be used if an application-define page

** cache implementation is loaded using the `SQLITE_CONFIG_PCACHE2` option.

** There are three arguments to this option: A pointer to 8-byte aligned

** memory, the size of each page buffer (`sz`), and the number of pages (`N`).

** The sz argument should be the size of the largest database page
 ** (a power of two between 512 and 32768) plus a little extra for each
 ** page header. ^The page header size is 20 to 40 bytes depending on
 ** the host architecture. ^It is harmless, apart from the wasted memory,
 ** to make sz a little too large. The first
 ** argument should point to an allocation of at least sz*N bytes of memory.
 ** ^SQLite will use the memory provided by the first argument to satisfy its
 ** memory needs for the first N pages that it adds to cache. ^If additional
 ** page cache memory is needed beyond what is provided by this option, then
 ** SQLite goes to [sqlite3_malloc()] for the additional storage space.
 ** The pointer in the first argument must
 ** be aligned to an 8-byte boundary or subsequent behavior of SQLite
 ** will be undefined.</dd>

**
 ** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
 ** <dd> ^This option specifies a static memory buffer that SQLite will use
 ** for all of its dynamic memory allocation needs beyond those provided
 ** for by [SQLITE_CONFIG_SCRATCH] and [SQLITE_CONFIG_PAGECACHE].
 ** There are three arguments: An 8-byte aligned pointer to the memory,
 ** the number of bytes in the memory buffer, and the minimum allocation size.
 ** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
 ** to using its default memory allocator (the system malloc() implementation),
 ** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the
 ** memory pointer is not NULL and either [SQLITE_ENABLE_MEMSYS3] or
 ** [SQLITE_ENABLE_MEMSYS5] are defined, then the alternative memory
 ** allocator is engaged to handle all of SQLite's memory allocation needs.
 ** The first pointer (the memory pointer) must be aligned to an 8-byte
 ** boundary or subsequent behavior of SQLite will be undefined.
 ** The minimum allocation size is capped at 2**12. Reasonable values
 ** for the minimum allocation size are 2**5 through 2**8.</dd>

**
 ** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
 ** <dd> ^This option takes a single argument which is a pointer to an
 ** instance of the [sqlite3_mutex_methods] structure. The argument specifies
 ** alternative low-level mutex routines to be used in place
 ** the mutex routines built into SQLite.)^ ^SQLite makes a copy of the
 ** content of the [sqlite3_mutex_methods] structure before the call to
 ** [sqlite3_config()] returns. ^If SQLite is compiled with
 ** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
 ** the entire mutexing subsystem is omitted from the build and hence calls to
 ** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
 ** return [SQLITE_ERROR].</dd>

**
 ** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
 ** <dd> ^This option takes a single argument which is a pointer to an
 ** instance of the [sqlite3_mutex_methods] structure. The
 ** [sqlite3_mutex_methods]
 ** structure is filled with the currently defined mutex routines.)^

** This option can be used to overload the default mutex allocation
 ** routines with a wrapper used to track mutex usage for performance
 ** profiling or testing, for example. ^If SQLite is compiled with
 ** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
 ** the entire mutexing subsystem is omitted from the build and hence calls to
 ** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
 ** return [SQLITE_ERROR].</dd>
 **
 ** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
 ** <dd> ^(This option takes two arguments that determine the default
 ** memory allocation for the lookaside memory allocator on each
 ** [database connection]. The first argument is the
 ** size of each lookaside buffer slot and the second is the number of
 ** slots allocated to each database connection.)^ ^(This option sets the
 ** <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
 ** verb to [sqlite3_db_config()] can be used to change the lookaside
 ** configuration on individual connections.)^ </dd>
 **
 ** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
 ** <dd> ^(This option takes a single argument which is a pointer to
 ** an [sqlite3_pcache_methods2] object. This object specifies the interface
 ** to a custom page cache implementation.)^ ^SQLite makes a copy of the
 ** object and uses it for page cache memory allocations.</dd>
 **
 ** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
 ** <dd> ^(This option takes a single argument which is a pointer to an
 ** [sqlite3_pcache_methods2] object. SQLite copies of the current
 ** page cache implementation into that object.)^ </dd>
 **
 ** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
 ** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
 ** global [error log].
 ** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
 ** function with a call signature of void(*)(void*,int,const char*),
 ** and a pointer to void. ^If the function pointer is not NULL, it is
 ** invoked by [sqlite3_log()] to process each logging event. ^If the
 ** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
 ** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
 ** passed through as the first parameter to the application-defined logger
 ** function whenever that function is invoked. ^The second parameter to
 ** the logger function is a copy of the first parameter to the corresponding
 ** [sqlite3_log()] call and is intended to be a [result code] or an
 ** [extended result code]. ^The third parameter passed to the logger is
 ** log message after formatting via [sqlite3_snprintf()].
 ** The SQLite logging interface is not reentrant; the logger function
 ** supplied by the application must not invoke any SQLite interface.
 ** In a multi-threaded application, the application-defined logger
 ** function must be threadsafe. </dd>

**

** `[[SQLITE_CONFIG_URI]]` <dt>`SQLITE_CONFIG_URI`

** <dd> This option takes a single argument of type `int`. If non-zero, then

** URI handling is globally enabled. If the parameter is zero, then URI handling

** is globally disabled. If URI handling is globally enabled, all filenames

** passed to `[sqlite3_open()]`, `[sqlite3_open_v2()]`, `[sqlite3_open16()]` or

** specified as part of `[ATTACH]` commands are interpreted as URIs, regardless

** of whether or not the `[SQLITE_OPEN_URI]` flag is set when the database

** connection is opened. If it is globally disabled, filenames are

** only interpreted as URIs if the `SQLITE_OPEN_URI` flag is set when the

** database connection is opened. By default, URI handling is globally

** disabled. The default value may be changed by compiling with the

** `[SQLITE_USE_URI]` symbol defined.

**

** `[[SQLITE_CONFIG_COVERING_INDEX_SCAN]]` <dt>`SQLITE_CONFIG_COVERING_INDEX_SCAN`

** <dd> This option takes a single integer argument which is interpreted as

** a boolean in order to enable or disable the use of covering indices for

** full table scans in the query optimizer. The default setting is determined

** by the `[SQLITE_ALLOW_COVERING_INDEX_SCAN]` compile-time option, or is "on"

** if that compile-time option is omitted.

** The ability to disable the use of covering indices for full table scans

** is because some incorrectly coded legacy applications might malfunction

** malfunction when the optimization is enabled. Providing the ability to

** disable the optimization allows the older, buggy application code to work

** without change even with newer versions of SQLite.

**

** `[[SQLITE_CONFIG_PCACHE]]` `[[SQLITE_CONFIG_GETPCACHE]]`

** <dt>`SQLITE_CONFIG_PCACHE` and `SQLITE_CONFIG_GETPCACHE`

** <dd> These options are obsolete and should not be used by new code.

** They are retained for backwards compatibility but are now no-ops.

** </dd>

**

** `[[SQLITE_CONFIG_SQLLOG]]`

** <dt>`SQLITE_CONFIG_SQLLOG`

** <dd>This option is only available if `sqlite` is compiled with the

** `[SQLITE_ENABLE_SQLLOG]` pre-processor macro defined. The first argument should

** be a pointer to a function of type `void*(void*,sqlite3*,const char*, int)`.

** The second should be of type `(void*)`. The callback is invoked by the library

** in three separate circumstances, identified by the value passed as the

** fourth parameter. If the fourth parameter is 0, then the database connection

** passed as the second argument has just been opened. The third argument

** points to a buffer containing the name of the main database file. If the

** fourth parameter is 1, then the SQL statement that the third parameter

** points to has just been executed. Or, if the fourth parameter is 2, then

** the connection being passed as the second parameter is being closed. The

** third parameter is passed `NULL` in this case. An example of using this

** configuration option can be seen in the "test_sqllog.c" source file in

** the canonical SQLite source tree.</dd>

```

**
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. The maximum allowed mmap size
** cannot be changed at run-time. Nor may the maximum allowed mmap size
** exceed the compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.
** If either argument to this option is negative, then that argument is
** changed to its compile-time default.
** </dl>
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-
archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNIVkuI7/sqlite-src-3071700/src/sqlite.h.in
No license file was found, but licenses were detected in source scan.

```

<copyright.html> public domain and is thus free for

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-
archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/about.html
No license file was found, but licenses were detected in source scan.

```

2006 September 14

#

The author disclaims copyright to this source code. In place of
a legal notice, here is a blessing:

#

May you do good and not evil.

May you find forgiveness for yourself and forgive others.

May you share freely, never taking more than you give.

#

This file implements regression tests for SQLite library. The

focus of this script is testing the FTS3 module.

#

\$Id: fts3ac.test,v 1.1 2007/08/20 17:38:42 shess Exp \$

#

set testdir [file dirname \$argv0]

source \$testdir/tester.tcl

If SQLITE_ENABLE_FTS3 is defined, omit this file.

```
ifcapable !fts3 {  
  finish_test  
  return  
}
```

Create a table of sample email data. The data comes from email

archives of Enron executives that was published as part of the

litigation against that company.

#

```
do_test fts3ac-1.1 {
```

```
  db eval {
```

```
    CREATE VIRTUAL TABLE email USING fts3([from],[to],subject,body);
```

```
    BEGIN TRANSACTION;
```

```
INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com,  
traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following  
changes will be made to the Autohedge functionality on EnronOnline.
```

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

? If the transaction volume on the child is less than half of the parent's minimum volume no hedge will occur.

? If the transaction volume on the child is more than half the parent's minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent's minimum volume.

? For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent's Settings:

Minimum: 5000

Increment: 1000

Volume on Autohedge transaction Volume Hedged

1 - 2499 0

2500 - 5499 5000

5500 - 6499 6000');

```
INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com,  
lisa.king@enron.com, lisa.best@enron.com,', 'Leaving Early', 'FYI:
```

```
If it's ok with everyone's needs, I would like to leave @4pm. If you think  
you will need my assistance past the 4 o'clock hour just let me know; I'll  
be more than willing to stay.');
```

```
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concuere workplace.com',
```

```
'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready  
for approval:
```

Employee Name: Christopher F. Calger

Status last changed by: Mollie E. Gustafson Ms

Expense Report Name: CC02.06.02

Report Total: \$3,972.93

Amount Due Employee: \$3,972.93

To approve this expense report, click on the following link for Concur Expense.

<http://expensexms.enron.com>);

INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,

Could you print off the current work request report by 1:30 today?

Gentlemen,

I'd like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD');

INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....

<http://biz.yahoo.com/rf/010129/n29305829.html>);

INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');

INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', '

The producer lumber pricing sheet.

-----Original Message-----

From: Johnson, Jay

Sent: Tuesday, October 16, 2001 3:42 PM

To: Carter, Karen E.

Subject: FW: Producers Newsletter 9-24-2001

-----Original Message-----

From: Daigre, Sergai

Sent: Friday, September 21, 2001 8:33 PM

Subject: Producers Newsletter 9-24-2001

');

INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards

Delainey');

INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com',
'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com

713.853.3884

877.498.3401 Pager

-----Original Message-----

From: Bisbee, Joanne

Sent: Wednesday, September 26, 2001 7:50 AM

To: Fenceroy, LaChandra

Subject: FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----

From: Koh, Wendy

Sent: Tuesday, September 25, 2001 2:41 PM

To: Bisbee, Joanne

Subject: Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');

INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com',
'RE: worksheets', 'Fran,

If Julie's merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd's sheets as well.

Thanks.

Dan

-----Original Message-----

From: Fagan, Fran

Sent: Thursday, December 20, 2001 11:10 AM

To: McCarty, Danny

Subject: worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

');

INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT');

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com,', 'TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y¤t_efct_d ate=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.');

INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!');

INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.');

INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');

INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.

In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott

IIR, Inc.

713-783-5147 x 3481

outages@industrialinfo.com

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.

- OUTAGE.dbf

- 111201R.xls

- 111201.xls ');

INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com', 'all_ena_egm_eim@enron.com', 'EWS Brown Bag', 'MARK YOUR LUNCH CALENDARS NOW !

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001

11:30 am - 12:30 pm

EB 5 C2

You bring your lunch, Limited Seating

We provide drinks and dessert. RSVP x 3-9610');

INSERT INTO email([from],[to],subject,body) VALUES('chris.germany@enron.com', 'ingrid.immer@williams.com', 'Re: About St Pauls', 'Sounds good to me. I bet this is next to the Warick?? Hotel.

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM

To: ""chris.germany@enron.com"" <chris.germany@enron.com>

cc:

Subject: About St Pauls

<<About St Pauls.url>>

?

?http://www.stpaulshouston.org/about.html

INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', ", 'George,

Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,

JMForney

3-7160');

INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');

INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam

35227

-----Original Message-----

From: Royed, Jeff

Sent: Tuesday, September 25, 2001 11:37 AM

To: Bayer, Adam

Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed

Enron

Energy Operations

Phone: 713-853-5295');

INSERT INTO email([from],[to],subject,body) VALUES('matt.smith@enron.com', 'yan.wang@enron.com', 'Report Formats', 'Yan,

The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts

15 Questar Pipeline

40 Rockies Production

22 West_2

23 West_3

25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.);
INSERT INTO email([from],[to],subject,body) VALUES('michelle.lokay@enron.com', 'jimboman@bigfoot.com',
'Egyptian Festival', '----- Forwarded by Michelle Lokay/ET&S/Enron on 09/07/2000
10:08 AM -----

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: ""Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
<Leila_Mankarious@mhhs.org>, ""Marymankarious (E-mail)"
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy
Mankarious (E-mail)" <Mankarious@aol.com>
cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

<http://www.egyptianfestival.com/>

- Egyptian Festival.url

);

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com',
'sherry.dawson@enron.com', 'Urgent!!! --- New EAST books', 'This has to be done.....

Thanks

----- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000
08:39 AM -----

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David
Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R
Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra
Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is
extremely important that any deal booked to the East is communicated quickly
to someone on my team. I know it will take some time for the new names to
sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:

Scott Neal : East Northeast

Dick Jenkins: East Marketeast

WK

');

INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357

Europe: + 44 (0) 20 7783 7783

Asia/Australia: +61 2 9229 2300

Dave');

INSERT INTO email([from],[to],subject,body) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re: Light reading - see pieces beginning on page 7', 'John,

I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM

To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>

cc:

Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

);
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com',
'mmmarcanel@equiva.com', 'RE:', 'i will try to line up a pig for you ');
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com,
chaun.roberts@enron.com, judy.martinez@enron.com,', 'Disaster Recovery Equipment', 'As a reminder...there are
several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery
Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer
system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment
for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760);

INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X
24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this
product out ASAP.

Thanks,

Eric');
INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm..tholt@enron.com',
'10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE]
[IMAGE][IMAGE][IMAGE]

Dear SmartReminders Member,

[IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]

We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers,click here.

SmartReminders.com is a permission based service. To unsubscribe click here . ');

INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com', 'mark.bernstein@enron.com', ', 'The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA"s in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!

Ben');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concreworkplace.com', 'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash Report Name: Houston Cellular 8-11-01 Report Date: 12/13/01 Report ID: 594D37C9ED2111D5B452 Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.');

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, mark.palmer@enron.com, karen.denne@enron.com,', 'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI. the latest broadside against the generators.

Sue Mara

Enron Corp.

Tel: (415) 782-7802

Fax:(415) 782-7854

----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: ""smara@enron.com"" <smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie

<http://www.caiso.com/docs/2001/06/08/200106081005526469.pdf>

);

INSERT INTO email([from],[to],subject,body) VALUES('fletcher.sturm@enron.com', 'eloy.escobar@enron.com', 'Re: General Brinks Position Meeting', 'Eloy,

Who is General Brinks?

Fletch');

INSERT INTO email([from],[to],subject,body) VALUES('nailia.dindarova@enron.com', 'richard.shapiro@enron.com', 'Documents for Mark Frevert (on EU developments and lessons from', 'Rick,

Here are the documents that Peter has prepared for Mark Frevert.

Nailia

----- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001

16:36 -----

Nailia Dindarova

25/06/2001 15:36

To: Michael Brown/Enron@EUEnronXGate

cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

);
INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com',
'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:

- Finalize market analysis to refine business case, specifically
projected revenue stream
- Complete counterparty surveying, including targeting 3 CPs for letters
of intent
- Review Enron asset base for potential reuse/ licensing
- Contract negotiations

Joe will come back to us with an updated time line, but it is my
expectation that we are still on the same schedule (we just begun week
three) with possibly a week or so slippage.....contract negotiations will
probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)

- accenture-dealpoints v2.doc ');

INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com',
'Re: Guadalupe Power Partners LP', '----- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001
03:49 PM -----

Thomas A Martin

10/11/2000 03:55 PM

To: Patrick Wade/HOU/ECT@ECT

cc:

Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at
either HSC, Waha or Katytailgate GD at buyers option three days prior to
NYMEX close.

);

INSERT INTO email([from],[to],subject,body) VALUES('judy.townsend@enron.com', 'dan.junek@enron.com',
chris.germany@enron.com', 'Columbia Distribution's Capacity Available for Release - Sum', '-----
Forwarded by Judy Townsend/HOU/ECT on 03/09/2001 11:04
AM -----

agoddard@nsource.com on 03/08/2001 09:16:57 AM

To: " - *Koch, Kent" <kkoch@nsource.com>, " -
*Millar, Debra" <dmillar@nsource.com>, " - *Burke, Lynn"
<lburke@nsource.com>
cc: " - *Heckathorn, Tom" <theckathorn@nsource.com>
Subject: Columbia Distribution's Capacity Available for Release - Sum

Attached is Columbia Distribution's notice of capacity available for release
for
the summer of 2001 (Apr. 2001 through Oct. 2001).

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives
listed
at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc

');

INSERT INTO email([from],[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com,
dana.davis@enron.com, genia.fitzgerald@enron.com,', 'Split Rock Energy LLC', 'We have received the executed
EEI contract from this CP dated 12/12/2000.

Copies will be distributed to Legal and Credit.');

INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com,
crow@millernash.com, michaelearly@earthlink.net,', 'Oral Argument Request', ' - Oral Argument Request.doc');

INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com', ",

'Did you come in town this wk end..... My new number at our house is :

713-668-3712..... my cell # is 281-381-7332

the kid');

INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com',
'FW: Contact Info', '

-----Original Message-----

From: Punja, Karim

Sent: Thursday, December 13, 2001 2:35 PM

To: Richey, Cooper

Subject: Contact Info

Cooper,

Its been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.

);
INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com,
mcguinn.ian@enron.com, mcguinn.stephen@enron.com,', 'email address change', 'Hello all.

I haven't talked to many of you via email recently but I do want to give you
my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com',
'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas
logistics team. It was in the budget and we had the okay, but now I'm hearing there is some hold-up & the units are
stored on 44.

Shelley');
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com',
'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com,', '2001 Enron Law Conference
(Distribution List 2)', ' Enron Law Conference

San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an
Online RSVP Form on the Enron Law Conference Website at
<http://lawconference.corp.enron.com>. The website is still under construction
and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website
is operational.

? Please complete the Online RSVP Form as soon as it is available and submit
it no later than Friday, March 30th.

);
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com',
'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i'll call pat
and let him know - we are coming on saturday - i just havent had a chance to
call you guys back -- looking forward to it -- i probably need the
directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com',
'Re: Feedback for Audrey Cook', 'Bryce,

I'll get it done today.

DG 3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT

cc:

Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

);
INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com',
'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson

PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson

EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!

Casey');

INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com',
'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com,', 'Postings', 'Please see the
attached.

ds

');

INSERT INTO email([from],[to],subject,body) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com,
james_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will
have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation.
I wasn't sure whether he transmitted them to you as well. Would you please
advise me if you would like them sent to you? I can email the MS Excel files
or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email,
or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL's work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com');

INSERT INTO email([from],[to],subject,body) VALUES('phillip.love@enron.com', 'todayost@utmb.edu,
gbsonnta@utmb.edu', 'New President', 'I had a little bird put a word in my ear. Is there any possibility for Ben
Raimier to be Bush's secretary of HHS? Just curious about that infamous UTMB
rumor mill. Hope things are well, happy holidays.

PL');

INSERT INTO email([from],[to],subject,body) VALUES('marie.heard@enron.com', 'ehamilton@fna.com', 'ISDA
Master Agreement', 'Erin:

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to
the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your
comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

);
INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com',
'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

);
INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com,
felicia.case@enron.com, b..clapp@enron.com,', 'Price List week of Oct. 8-9, 2001', '
Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

);
INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com',
'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our
Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail
risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.);
INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com',
'RE: Constellation TC 5-7-01', 'Gregg,

I am at home with a sick baby. (Lots of fun!) I will call you about this
tomorrow.

Stacy');
INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', ", 'hey
big guy.....check this out.....

w ww.gorelieberman-2000.com/");
INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacquestc@aol.com', ", 'Jacques,

I sent you a fax of Kevin Kolb's comments on the release. The payoff on the note would be \$36,248 (\$36090(principal) + \$158 (accrued interest)).
This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip);

INSERT INTO email([from],[to],subject,body) VALUES('kourtney.nelson@enron.com',
'mike.swerzbin@enron.com', 'Adjusted L/R Balance', 'Mike,

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

- 1) "Adj L_R" is the same data/format from the weekly strategy meeting.
- 2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
-Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson

Fundamental Analysis

Enron North America

(503) 464-8280

kourtney.nelson@enron.com);

INSERT INTO email([from],[to],subject,body) VALUES('d..thomas@enron.com', 'naveed.ahmed@enron.com',
'FW: Current Enron TCC Portfolio', '

-----Original Message-----

From: Grace, Rebecca M.

Sent: Monday, December 17, 2001 9:44 AM

To: Thomas, Paul D.

Cc: Cashion, Jim; Allen, Thresa A.; May, Tom

Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY's list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----

From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:08 AM
To: Grace, Rebecca M.
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>

Rebecca,
Let me know if you see any differences.

Paul

X 3-0403

-----Original Message-----

From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----

From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');

INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',
'william.bradford@enron.com, debbie.brackett@enron.com,', 'Coastal Merchant Energy/El Paso Merchant Energy',
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy,
L.P., effective February 1, 2001, with the surviving entity being El Paso
Merchant Energy, L.P. We currently have ISDA Master Agreements with both
counterparties. Please see the attached memo regarding the existing Masters
and let us know which agreement should be terminated.

Thanks,
Stephanie

');

INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE:

What about this too???, '

-----Original Message-----

From: Kenne, Dawn C.

Sent: Wednesday, February 06, 2002 11:50 AM

To: Keiser, Kam

Subject: What about this too???

<< File: Netco Trader Matrix.xls >>

');

INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com', 'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris

x31666');

INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com', 'jworman@academyofhealth.com', ', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere

Enron North America Corp.

1400 Smith Street, EB 3885

Houston, Texas 77002

dperlin@enron.com

Phone 713-853-7658

Fax 713-646-3490');

INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', ', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY: APPOINTMENT

Description:

Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001

Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:');

INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile.

We got a request for guest access through MG.

The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.

F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.

Thanks !

Best regards

Diana Seifert

EOL PCG');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concuworkplace.com', 'mark.whitt@enron.com', '<<Concur Expense Document>> - 121001', 'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz

Expense Report Name: 121001

Report Total: \$198.98

Amount Due Employee: \$198.98

Amount Approved: \$198.98

Amount Paid: \$0.00

Approval Status: Approved

Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.

<http://expense.ms.enron.com>');

INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:

1800 678-515

support@palm-au.com

Canada:

1905 305-6530

support@palm.com

New Zealand:

0800 446-398

support@palm-nz.com

U.K.:

0171 867 0108

eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.');

INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com',

'RE:', 'duke contact?'

-----Original Message-----

From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 10:14 AM
To: Storey, Geoff
Subject: RE:

bp corp Albert LaMore 281-366-4962

running the reports now

-----Original Message-----

From: Storey, Geoff
Sent: Wednesday, October 31, 2001 10:10 AM
To: Quigley, Dutch
Subject: RE:

give me a contact over there too

BP

-----Original Message-----

From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject:

Coral Jeff Whitnah 713-767-5374

Relaint Steve McGinn 713-207-4000');

INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start Date: 4/22/01; HourAhead hour: 3; <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3; No ancillary schedules awarded.

Variances detected.

Variances detected in Load schedule.

LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----

\$\$\$ Variance found in table tblLoads.

Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)

TRANS_TYPE: FINAL

LOAD_ID: PGE4

MKT_TYPE: 2

TRANS_DATE: 4/22/01

SC_ID: EPMI

);

```
INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com',
'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost
here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to
get everything in order just in case something happens.
```

John');

```
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com',
'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the
shower). I have had a shitty week--I suspect my silence (not only to you,
but others) after our phone call is a result of the week. I'm seeing Glen at
11:15....talk to you');
```

```
INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', ', 'Lite Bytz RSVP', '
This week's Lite Bytz presentation will feature the following TOOLZ speaker:
```

Richard McDougall

Solaris 8

Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

<http://home.enron.com:84/messaging/litebytztoolzprint.jpg>);

```
COMMIT;
```

```
}
```

```
} {}
```

```
#####
```

```
# Everything above just builds an interesting test database. The actual
```

```
# tests come after this comment.
```

```
#####
```

```
do_test fts3ac-1.2 {
```

```
  execsql {
```

```
    SELECT rowid FROM email WHERE email MATCH 'mark'
```

```
  }
```

```
} {6 17 25 38 40 42 73 74}
```

```
do_test fts3ac-1.3 {
```

```
  execsql {
```

```
    SELECT rowid FROM email WHERE email MATCH 'susan'
```

```
  }
```

```

} {24 40}
do_test fts3ac-1.4 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark susan'
  }
} {40}
do_test fts3ac-1.5 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan mark'
  }
} {40}
do_test fts3ac-1.6 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH "'mark susan'"
  }
} {}
do_test fts3ac-1.7 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
  }
} {6 17 25 38 42 73 74}
do_test fts3ac-1.8 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
  }
} {24}
do_test fts3ac-1.9 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
  }
} {6 17 24 25 38 40 42 73 74}

```

```

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#

```

```

do_test fts3ac-2.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}

```

```

do_test fts3ac-2.3 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
  }
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.4 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8}}
do_test fts3ac-2.5 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
  }
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts3ac-3.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
  }
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts3ac-3.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH "'child product'"
  }
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

# Snippet generator tests
#
do_test fts3ac-4.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
} {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts3ac-4.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
  }
}

```

```

}
} {{<b>...</b>here <b>Christmas</b>
eve?? They have an 11:00 a.m. service and a <b>candlelight</b> service<b>...</b>}}

do_test fts3ac-4.3 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'deal sheet potential reuse'
}
} {{EOL-Accenture <b>Deal</b> <b>Sheet</b><b>...</b>asset base for <b>potential</b> <b>reuse</b>/ licensing
Contract negotiations<b>...</b>}}
do_test fts3ac-4.4 {
execsql {
SELECT snippet(email,'<<<','>>>',') FROM email
WHERE email MATCH 'deal sheet potential reuse'
}
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> asset base for <<<potential>>> <<<reuse>>>/ licensing
Contract negotiations }}
do_test fts3ac-4.5 {
execsql {
SELECT snippet(email,'<<<','>>>',') FROM email
WHERE email MATCH 'first things'
}
} {{Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now }}
do_test fts3ac-4.6 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'chris is here'
}
} {{<b>...</b><b>chris</b>.germany@enron.com" <b>chris</b><b>...</b>bet this <b>is</b> next
to<b>...</b>about going <b>here</b> Christmas
eve<b>...</b>}}
do_test fts3ac-4.7 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH "'pursuant to'"
}
} {{Erin:

<b>Pursuant</b> <b>to</b> your request, attached are the Schedule to the ISDA Master Agreement,
together<b>...</b>}}
do_test fts3ac-4.8 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'ancillary load davis'
}
} {{pete.<b>davis</b>@enron.com<b>...</b>3; No <b>ancillary</b> schedules awarded<b>...</b>detected in
<b>Load</b> schedule.

```



```

LOG<b>...</b>}}

# Combinations of AND and OR operators:
#
do_test fts3ac-5.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'questar enron OR com'
  }
} {{matt.smith@<b>enron</b>.<b>com</b><b>...</b>31 Keystone Receipts
15 <b>Questar</b> Pipeline
40 Rockies<b>...</b>}}

do_test fts3ac-5.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'enron OR com questar'
  }
} {{matt.smith@<b>enron</b>.<b>com</b><b>...</b>31 Keystone Receipts
15 <b>Questar</b> Pipeline
40 Rockies<b>...</b>}}

#-----
# Test a problem reported on the mailing list.
#
do_test fts3ac-6.1 {
  execsql {
    CREATE VIRTUAL TABLE ft USING fts3(one, two);
    INSERT INTO ft VALUES(", 'foo');
    INSERT INTO ft VALUES('foo', 'foo');
    SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
  }
} {{1 0 0 3} {0 0 0 3 1 0 0 3}}
do_test fts3ac-6.2 {
  execsql {
    DELETE FROM ft WHERE one = 'foo';
    SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
  }
} {{1 0 0 3}}

finish_test

```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-
archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNIVkuI7/sqlite-src-3071700/test/fts3ac.test
```

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

```
<html>
<title>SQLite Copyright Release Template</title>
<body bgcolor="white">
<h1 align="center">
Copyright Release for<br>
Contributions To SQLite
</h1>

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under some new name, without any need to obtain permission, pay
royalties, acknowledge the original source of the software, or
in any other way compensate, identify, or notify the original authors.
Nobody is in any way compelled to contribute their SQLite changes and
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only changes and enhancements to SQLite that are intentionally and
deliberately contributed back to the SQLite website.
</p>

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For the purposes of this document, "SQLite software" shall mean any
computer source code, documentation, makefiles, test scripts, or
other information that is published on the SQLite website,
http://www.sqlite.org/. Precompiled binaries are excluded from
the definition of "SQLite software" in this document because the
process of compiling the software may introduce information from
outside sources which is not properly a part of SQLite.
</p>

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The header comments on the SQLite source files exhort the reader to
share freely and to never take more than one gives.
In the spirit of that exhortation I make the following declarations:
```

</p>

<p>

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</p>

<p>

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</p>

<p>

To the best of my knowledge and belief, no individual, business, organization, government, or other entity has any copyright interest in the SQLite software as it existed on the SQLite website as of the date on the signature line below.

</p>

<p>

I agree never to publish any additional information to the SQLite website (by CVS, email, scp, FTP, or any other means) unless that information is an original work of authorship by me or is derived from prior published versions of SQLite.

I agree never to copy and paste code into the SQLite code base from other sources.

I agree never to publish on the SQLite website any information that would violate a law or breach a contract.

</p>

<p>

<table width="100%" cellpadding="0" cellspacing="0">

<tr>

<td width="60%" valign="top">

Signature:

<p> </p>

<p> </p>

<p> </p>

</td><td valign="top" align="left">

Date:

</td></tr>

<td colspan=2>

Name (printed):

</td>

</tr>

</table>

</body>

</html>

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/copyright-release.html

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

)print dup()cvns print

Found in path(s):

* {cvx \$error/errorname get(Error

1.92 chkconfig 1.7.6-1.el7

1.92.1 Available under license :

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Version 2, June 1991

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1.93 python-setuptools 1.19.11 8.el7

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```
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```

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1.97 sysstat 10.1.5 19.e17

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

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```
Gnomovision version 69, Copyright (C) 19yy name of author
```

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

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1.98 flexnet-publisher 11.10.0.0

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#The following demo line has these properties:

It expires on 1-jan-1999
It's uncounted, and therefore requires no server (no
lmgrd needed)
It will run on any node.

FEATURE f1 demo 1.000 01-jan-1999 uncounted 0 HOSTID=DEMO

The next demo line is just like the first, but will not
expire. This is ONLY useful if your application gets the
CONFIG * struct for this FEATURE line, and determines that
it's a DEMO type HOSTID, and uses this fact to limit the
behavior of the application to "demonstration" functions
only.

FEATURE f2 demo 1.000 01-jan-0 uncounted 0 HOSTID=DEMO

```
# Users can change "this_host" to the real hostname, but
# they cannot change the hostid (ANY). In practice,
# you'll probably want to use a real hostid
```

```
SERVER this_host ANY
```

```
#Put your DAEMON name here.
```

```
DAEMON demo
```

```
##### FEATURE LINES #####
```

```
#Floating, unexpiring, counted
#FEATURE name: f1
#VERSION: 1.000
#Expiration: never
#Users: 4 concurrent users
```

```
FEATURE f1 demo 1.000 permanent 4 0
```

```
#Floating, expiring, counted
#FEATURE name: f1
#VERSION: 1.000
#Expiration: 1-jan-1999
#Users: 4 concurrent users
```

```
FEATURE f2 demo 1.000 01-jan-1999 4 0
```

```
#Floating, expiring, counted, Incremental
# Same as previous, but will ADD 1 user to an existing file.
```

```
INCREMENT f2 demo 1.000 01-jan-1999 1 0
```

```
##### Example 1 #####
```

```
#Suite, containing 2 components. In this example, if you checkout
# "comp1", a license for "suite" is also checked out.
```

```
PACKAGE suite demo 1.000 0 COMPONENTS="comp1 comp2 comp3 comp4" OPTIONS=SUITE
```

```
#A sample accompanying license file that would enable "suite",
# giving the end-user 2 uses each of comp1, comp2, comp3 comp4
```

```
SERVER this_host 08002b32b161
```

```
DAEMON demo
```

```
FEATURE suite demo 1.000 permanent 2 0
```

```
##### Example 2 #####
```

```

#Without OPTIONS=SUITE, the PACKAGE line is a convenience tool for
# distribution. If you checkout a component, the enabling
# feature is NOT also checked out.

PACKAGE products demo 1.000 0 COMPONENTS="f1 f2 f3 f4" OPTIONS=SUITE

#The vendor can now ship this node-locked, uncounted to 4 nodes with
# the following license file:

FEATURE products demo 1.000 permanent uncounted 0 VENDOR_STRING="1" \
HOSTID="1 2 3 4"
#SERVER runs on hostid 12345678
# Users can change the hostname and port number, but
# Not the hostid

SERVER this_host 12345678

#Put your DAEMON name here. Users can change the path to the daemon

DAEMON demo

##### FEATURE LINES #####

#Counted, node-locked
#FEATURE names: f1, f2 and f3
#VERSION: 1.000
#Expiration: never (that's because the year in the date is '0')
#Users: 9 concurrent users
#Node-locked: hostid abc. All 9

FEATURE f1 demo 1.000 permanent 9 0 HOSTID=abc ck=0
FEATURE f2 demo 1.000 permanent 9 0 HOSTID=abc ck=0
FEATURE f3 demo 1.000 permanent 9 0 HOSTID=abc ck=0

#5 more for HOSTID def

INCREMENT f1 demo 1.000 permanent 5 0 HOSTID=def
INCREMENT f2 demo 1.000 permanent 5 0 HOSTID=def
INCREMENT f3 demo 1.000 permanent 5 0 HOSTID=def

#uncounted (unlimited use) for HOSTID 123
#A server is not needed for the following 3 lines.

FEATURE f4 demo 1.000 01-jan-0 uncounted 0 HOSTID=123
FEATURE f5 demo 1.000 01-jan-0 uncounted 0 HOSTID=123
FEATURE f6 demo 1.000 01-jan-0 uncounted 0 HOSTID=123
SERVER this_host any
DAEMON demo

```

The purpose of this file is to illustrate optional extensions to
a license file.

Floating, unexpiring, counted
FEATURE name: f1
VERSION: 1.000
Expiration: never
Users: 9 concurrent users
LINGER

FEATURE f1 demo 1.000 permanent 9 0

Floating, expiring, counted
FEATURE name: f1
VERSION: 1.000
Expiration: 1-jan-1999
Users: 9 concurrent users

FEATURE f2 demo 1.000 01-jan-1999 9 0

Floating, expiring, counted, Incremental
#Same as previous, but will ADD 9 users to an existing file.

INCREMENT f2 demo 1.000 01-jan-1999 9 0

1.99 perl-net-ssleay 1.55 6.e17

1.99.1 Notifications :

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1.100 m2crypto 0.21.1 17.e17

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1.101 perl-time-hires 1.9725 3.el7

1.102 libdrm 2.4.97-2.el7

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1.103 qemu-kvm 1.5.3-175.el7_9.6

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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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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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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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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.

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1.111 pyserial 2.6 6.e17

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1.112 perl-socket 2.010 5.e17

1.112.1 Available under license :

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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.>  
Copyright (C) 19yy <name of author>
```

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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) 19xx 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 a sample; alter the names:

```
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

That's all there is to it!

The "Artistic License"

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1.114 python-schedutils 0.4 6.el7

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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 <barry@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.

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src/preproc/grn/gprint.h
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
src/libs/libxutil/XFontName.c

Macro Packages

. The -mdoc macro set, using the BSD license.

tmac/doc.tmac
tmac/doc-old.tmac

tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
tmac/doc-syms
tmac/groff_mdoc.man

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tmac/groff_me.man
doc/meintro.me
doc/meref.me

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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

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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 file `tmac/hyphenex.det' is identical to the file `dehyptex.tex',
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AUTHOR

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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.

This file will eventually be deleted: The general info will go into
the documentation, and info on specific files will go into an AUTHORS
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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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1.119 shared-mime-info 1.8 5.el7

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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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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) year 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
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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:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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consider it more useful to permit linking proprietary applications with the
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Public License instead of this License.

1.120 linux-firmware 8.83.5.1_1-80.el7_9

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Version 3, 29 June 2007

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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.

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1. Source Code.

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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The Corresponding Source need not include anything that users

can regenerate automatically from other parts of the Corresponding Source.

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- 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.

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```
<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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```
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This is free software, and you are welcome to redistribute it  
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```

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1.121 linux-firmware 41.28.5.1-80.el7_9

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Mesa 3-D graphics library

Version: 7.0

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1.129 libconfig 1.4.9 5.el7

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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 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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<one line to give the library's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

```
@c \input texinfo.tex @c -*-texinfo-*  
@c  
@c %**start of header
```

```
@c All text is ignored before the setfilename.  
@setfilename LGPL.info
```

```
@center GNU LESSER GENERAL PUBLIC LICENSE  
@center Version 2.1, February 1999
```

```
@sp 1
```

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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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@center Preamble  
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```

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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.

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 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.

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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:

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The modified work must itself be a software library.

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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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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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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.

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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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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.

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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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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.

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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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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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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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Ty Coon, President of Vice
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@c @bye

1.130 commons-daemon 1.3.1

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1.131 python-ply 3.4 11.el7

1.132 boto 2.25.0

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```
=====  
  
/*  
* imap_gssapi.c is partially derived from sample code in:  
* GSS-API Programming Guide  
* Part No: 816-1331-11  
* Sun Microsystems, Inc. 4150 Network Circle Santa Clara, CA 95054 U.S.A.  
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/*

* hmac.c is derived from:

Network Working Group H. Krawczyk
Request for Comments: 2104 IBM
Category: Informational M. Bellare
 UCSD
 R. Canetti
 IBM
 February 1997

 HMAC: Keyed-Hashing for Message Authentication

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=====

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1.136 libpcap 1.5.3-13.el7_9

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1.137 jersey-media-moxy 2.22.1

1.138 perl-io-compress 2.061 2.el7

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1.140 libproxy 0.4.11 11.e17

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1.142 which 2.20 7.e17

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1.143 libcap 2.22 11.e17

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1.146 also 1.1.8 1.e17

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1.147 yum-langpacks 0.4.2 7.el7

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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 *****/
/*
* POSIX This system supports IEEE Std 1003.1-1988 (POSIX).
*/
#undef POSIX

/*
* POSIXJOBS This 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 sgtyb.
 * This is usually the case for SYSV systems, where
 * BSD uses sgtyb. 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 SYSVREL 0

/*
 * YPBUGS Work around Sun YP bugs that cause expansion of ~username
 * to send command output to /dev/null
 */
#undef YPBUGS

/***** local defines *****/

#endif /* _h_config */

```

1.151 dbus-glib 0.100-7.el7

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1.152 sblimcmpinfs 1.1.1 9.el7

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*

* An almost complete rewrite of MySpell for use by

* the Mozilla project has been developed by David Einstein

* (Deinst@world.std.com). David and I are now

* working on parallel development tracks to help

* our respective projects (Mozilla and OpenOffice.org
* and we will maintain full affix file and dictionary
* file compatibility and work on merging our versions
* of MySpell back into a single tree. David has been
* a significant help in improving MySpell.
*
* Special thanks also go to La'szlo' Ne'meth
* <nemethl@gyorsposta.hu> who is the author of the
* Hungarian dictionary and who developed and contributed
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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.

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

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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.

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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.

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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.

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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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1.156 device-mapper-multipath 0.4.9-

135.el7_9

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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.

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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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.

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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.

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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 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

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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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1.157 javapackages-tools 3.4.1 11.el7

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1.159 cups 1.6.3-51.el7

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- doc/example/pcsc_demo.c

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@c Local Variables:

@c ispell-local-pdict: "ispell-dict"

@c End:

1.163 decorator 3.4.0

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```

Found in path(s):

```
* /opt/cola/permits/1154644470_1618870926.16/0/decorator-3-4-0-1-tar-gz/decorator-3.4.0/src/decorator.py
```

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try:

```
    from setuptools import setup  
except ImportError:  
    from distutils.core import setup  
import os.path
```

def getversion(fname):

```
    """Get the __version__ reading the file: works both in Python 2.X and 3.X,  
    whereas direct importing would break in Python 3.X with a syntax error"""  
    for line in open(fname):  
        if line.startswith('__version__'):  
            return eval(line[13:])  
    raise NameError('Missing __version__ in decorator.py')
```

```
VERSION = getversion(  
    os.path.join(os.path.dirname(__file__), 'src/decorator.py'))
```

if __name__ == '__main__':

```
    setup(name='decorator',  
          version=VERSION,  
          description='Better living through Python with decorators',  
          long_description=open('README.txt').read(),  
          author='Michele Simionato',  
          author_email='michele.simionato@gmail.com',  
          url='http://pypi.python.org/pypi/decorator',  
          license="BSD License",  
          package_dir = {'': 'src'},  
          py_modules = ['decorator'],  
          keywords="decorators generic utility",
```

```
platforms=["All"],
classifiers=['Development Status :: 5 - Production/Stable',
             'Intended Audience :: Developers',
             'License :: OSI Approved :: BSD License',
             'Natural Language :: English',
             'Operating System :: OS Independent',
             'Programming Language :: Python',
             'Programming Language :: Python :: 3',
             'Topic :: Software Development :: Libraries',
             'Topic :: Utilities'],
use_2to3=True,
zip_safe=False)
```

Found in path(s):

```
* /opt/cola/permits/1154644470_1618870926.16/0/decorator-3-4-0-1-tar-gz/decorator-3.4.0/setup.py
```

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Decorator module

=====

```
:Author: Michele Simionato
:E-mail: michele.simionato@gmail.com
:Requires: Python 2.4+
:Download page: http://pypi.python.org/pypi/decorator
:Installation: ``easy_install decorator``
:License: BSD license
```

Installation

If you are lazy, just perform

```
$ easy_install decorator
```

which will install just the module on your system. Notice that Python 3 requires the easy_install version of the distribute_ project.

If you prefer to install the full distribution from source, including the documentation, download the tarball_, unpack it and run

```
$ python setup.py install
```

in the main directory, possibly as superuser.

```
.. _tarball: http://pypi.python.org/pypi/decorator
.. _distribute: http://packages.python.org/distribute/
```

Testing

For Python 2.5, 2.6, 2.7 run

```
$ python documentation.py
```

for Python 3.X run

```
$ python documentation3.py
```

You will see a few innocuous errors with Python 2.5, because some inner details such as the introduction of the ArgSpec namedtuple and Thread.__repr__ changed. You may safely ignore them.

You cannot run the tests in Python 2.4, since there is a test using the with statement, but the decorator module is expected to work anyway (it has been used in production with Python 2.4 for years). My plan is to keep supporting all Python versions ≥ 2.4 in the core module, but I will keep the documentation and the tests updated only for the latest Python versions in both the 2.X and 3.X branches.

Finally, notice that you may run into trouble if in your system there is an older version of the decorator module; in such a case remove the old version.

Documentation

There are various versions of the documentation:

- `HTML version (Python 2)` _
- `PDF version (Python 2)` _

- `HTML version (Python 3)` _
- `PDF version (Python 3)` _

```
.. _HTML version (Python 2): http://micheles.googlecode.com/hg/decorator/documentation.html  
.. _PDF version (Python 2): http://micheles.googlecode.com/hg/decorator/documentation.pdf  
.. _HTML version (Python 3): http://micheles.googlecode.com/hg/decorator/documentation3.html  
.. _PDF version (Python 3): http://micheles.googlecode.com/hg/decorator/documentation3.pdf
```

Repository

The project is hosted on GoogleCode as a Mercurial repository. You can look at the source here:

<http://code.google.com/p/micheles/source/browse/#hg%2Fdecorator>

Found in path(s):

* /opt/cola/permits/1154644470_1618870926.16/0/decorator-3-4-0-1-tar-gz/decorator-3.4.0/README.txt

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Metadata-Version: 1.1

Name: decorator

Version: 3.4.0

Summary: Better living through Python with decorators

Home-page: <http://pypi.python.org/pypi/decorator>

Author: Michele Simionato

Author-email: michele.simionato@gmail.com

License: BSD License

Description: Decorator module

=====

:Author: Michele Simionato

:E-mail: michele.simionato@gmail.com

:Requires: Python 2.4+

:Download page: <http://pypi.python.org/pypi/decorator>

:Installation: ``easy_install decorator``

:License: BSD license

Installation

If you are lazy, just perform

```
$ easy_install decorator
```

which will install just the module on your system. Notice that Python 3 requires the easy_install version of the distribute_ project.

If you prefer to install the full distribution from source, including the documentation, download the tarball_, unpack it and run

```
$ python setup.py install
```

in the main directory, possibly as superuser.

.. _tarball: <http://pypi.python.org/pypi/decorator>

.. _distribute: <http://packages.python.org/distribute/>

Testing

For Python 2.5, 2.6, 2.7 run

```
$ python documentation.py
```

for Python 3.X run

```
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```

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.. _HTML version (Python 2): <http://micheles.googlecode.com/hg/decorator/documentation.html>
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Repository

The project is hosted on GoogleCode as a Mercurial repository. You can look at the source here:

<http://code.google.com/p/micheles/source/browse/#hg%2Fdecorator>

Keywords: decorators generic utility

Platform: All
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Natural Language :: English
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 3
Classifier: Topic :: Software Development :: Libraries
Classifier: Topic :: Utilities

Found in path(s):

* /opt/cola/permits/1154644470_1618870926.16/0/decorator-3-4-0-1-tar-gz/decorator-3.4.0/src/decorator.egg-info/PKG-INFO

* /opt/cola/permits/1154644470_1618870926.16/0/decorator-3-4-0-1-tar-gz/decorator-3.4.0/PKG-INFO

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* /opt/cola/permits/1154644470_1618870926.16/0/decorator-3-4-0-1-tar-gz/decorator-3.4.0/documentation.py

* /opt/cola/permits/1154644470_1618870926.16/0/decorator-3-4-0-1-tar-gz/decorator-3.4.0/documentation3.py

1.164 hk2-api 2.4.0-b31

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1.165 mtr 0.85 7.e17

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```
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```

```
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1.166 mariadb 5.5.68-1.el7

1.166.1 Available under license :

== MariaDB ==

The Debian package of MySQL was first debianized on 1997-04-12 by Christian Schwarz <schwarz@debian.org> and ist maintained since 1999-04-20 by Christian Hammers <ch@debian.org>.

The MariaDB packages were initally 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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```
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```

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

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```
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```

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

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1.171 perl-pod-simple 3.28 4.e17

1.172 xml-commons-resolver 1.0

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

```
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the Free Software Foundation; either version 1, or (at your option)  
any later version.
```

```
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```

```
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along with this program; if not, write to the Free Software  
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston MA 02110-1301 USA
```

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```
Gnomovision version 69, Copyright (C) 19xx 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.

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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
```

That's all there is to it!

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The End

1.176 perl-net-http 6.06 2.e17

1.177 tomcat-coyote 8.5.82

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1.178 crda 3.18_2018.05.31 4.e17

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1.179 atk 2.3.93

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That's all there is to it!

1.180 python-configobj 4.7.2 7.e17

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1.181 Iksctp-tools 1.0.17-2.el7

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```
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```

```
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1.182 fxload 2002_04_11 16.e17

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1.183 linux_kernel_zlib 3.10.0-1160.el7

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

/* 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

* details.

*

*

*

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*

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* M. Welsh, 6 July 1996
*
*
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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holz <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
for his LIRC infrared handler

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Ronny Strutz <3des@elitedvb.de>
Wolfram Joost <dbox2@frokaschwei.de>
...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>
Augusto Cardoso <augusto@carhil.net>
for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code,
the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc's for the
TechnoTrend/Hauppauge DEC driver firmware

Michael Dreher <michael@5dot1.de>
Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>
for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgt330x frontend driver, and various bugfixes

Michael Krufky <mkrufky@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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1.185 perl-http-message 6.06 6.el7

1.186 initscripts 9.49.53-1.el7_9.1

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1.188 pygobject 2.28.6 11.e17

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* $Header:
*/zpool01/javanet/scm/svn/tmp/cvs2svn/fi/FastInfoset/src/com/sun/xml/fastinfoset/AbstractResourceBundle.java,v
1.3.2.4 2009-05-13 08:53:01 oleksiys Exp $
*/
```

Found in path(s):

```
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
jar/com/sun/xml/fastinfoset/AbstractResourceBundle.java
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/sax/AttributesHolder.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/algorithm/BASE64EncodingAlgorithm.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/algorithm/HexadecimalEncodingAlgorithm.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/sax/SAXDocumentParser.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/algorithm/BuiltInEncodingAlgorithm.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/algorithm/FloatEncodingAlgorithm.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/stax/StAXDocumentParser.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/algorithm/BooleanEncodingAlgorithm.java

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jar/com/sun/xml/fastinfoset/org/apache/xerces/util/XMLChar.java
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-

jar/org/jvnet/fastinfoset/FastInfosetSerializer.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
jar/com/sun/xml/fastinfoset/stax/EventLocation.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
jar/org/jvnet/fastinfoset/sax/helpers/FastInfosetDefaultHandler.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
jar/com/sun/xml/fastinfoset/QualifiedName.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
jar/com/sun/xml/fastinfoset/util/FixedEntryStringIntMap.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
jar/com/sun/xml/fastinfoset/util/ValueArrayResourceException.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
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jar/com/sun/xml/fastinfoset/DecoderStateTables.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
jar/com/sun/xml/fastinfoset/stax/events/ReadIterator.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
jar/com/sun/xml/fastinfoset/algorithm/ShortEncodingAlgorithm.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
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jar/org/jvnet/fastinfoset/Vocabulary.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
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1.197 smartmontools 7.0 2.el7

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1.198 python-augeas 0.5.0 2.e17

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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.

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- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
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- web-fragment_3_1.xsd

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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
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- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
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- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
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The Windows Installer is built with the Nullsoft

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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
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1.209 jaxb-xjc 2.2.10-b140802.1033

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1.210 open-vm-tools 11.0.5-3.el7_9.3

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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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--

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1.213 libtool 2.4.2 22.el7_3

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/DescendantIterator.java

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

/*--

\$Id: Attribute.java,v 1.56 2007/11/10 05:28:58 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/Attribute.java
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\$Id: XPath.java,v 1.17 2007/11/10 05:29:02 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/xpath/XPath.java

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\$Id: JDOMParseException.java,v 1.8 2007/11/10 05:29:00 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/input/JDOMParseException.java

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\$Id: EntityRef.java,v 1.22 2007/11/10 05:28:59 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/EntityRef.java

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/*--

\$Id: DOMOutputter.java,v 1.43 2007/11/10 05:29:01 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/output/DOMOutputter.java

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/*--

\$Id: NamespaceKey.java,v 1.2 2007/11/10 05:28:59 jhunter Exp \$

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\$Id: DefaultJDOMFactory.java,v 1.7 2007/11/10 05:28:58 jhunter Exp \$

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\$Id: JAXPParserFactory.java,v 1.6 2007/11/10 05:29:00 jhunter Exp \$

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\$Id: AttributeList.java,v 1.24 2007/11/10 05:28:58 jhunter Exp \$

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\$Id: JDOMFactory.java,v 1.9 2007/11/10 05:28:59 jhunter Exp \$

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\$Id: Text.java,v 1.25 2007/11/10 05:28:59 jhunter Exp \$

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\$Id: ElementFilter.java,v 1.20 2007/11/10 05:29:00 jhunter Exp \$

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* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/filter/ElementFilter.java

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

/*--

\$Id: SAXOutputter.java,v 1.40 2007/11/10 05:29:01 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/output/SAXOutputter.java

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\$Id: Format.java,v 1.13 2007/11/10 05:29:01 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/output/Format.java
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/*--

\$Id: ContentList.java,v 1.42 2007/11/10 05:28:58 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/ContentList.java

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\$Id: NegateFilter.java,v 1.4 2007/11/10 05:29:00 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/filter/NegateFilter.java

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\$Id: BuilderErrorHandler.java,v 1.13 2007/11/10 05:29:00 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/input/BuilderErrorHandler.java
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\$Id: EscapeStrategy.java,v 1.4 2007/11/10 05:29:01 jhunter Exp \$

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* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/output/EscapeStrategy.java
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\$Id: JDOMLocator.java,v 1.4 2007/11/10 05:29:01 jhunter Exp \$

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\$Id: IllegalDataException.java,v 1.14 2007/11/10 05:28:59 jhunter Exp \$

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\$Id: AbstractDOMAdapter.java,v 1.21 2007/11/10 05:28:59 jhunter Exp \$

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\$Id: DataConversionException.java,v 1.14 2007/11/10 05:28:58 jhunter Exp \$

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\$Id: JDOMSource.java,v 1.20 2007/11/10 05:29:02 jhunter Exp \$

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\$Id: DOMBuilder.java,v 1.60 2007/11/10 05:29:00 jhunter Exp \$

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\$Id: XercesDOMAdapter.java,v 1.19 2007/11/10 05:28:59 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/adapters/XercesDOMAdapter.java

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

/*--

\$Id: Parent.java,v 1.13 2007/11/10 05:28:59 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/Parent.java

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\$Id: AndFilter.java,v 1.4 2007/11/10 05:29:00 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/filter/AndFilter.java

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\$Id: XSLTransformException.java,v 1.4 2007/11/10 05:29:02 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/transform/XSLTransformException.java

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\$Id: DocType.java,v 1.32 2007/11/10 05:28:58 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/DocType.java

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/*--

\$Id: NamespaceStack.java,v 1.14 2007/11/10 05:29:01 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/output/NameSpaceStack.java

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\$Id: IllegalTargetException.java,v 1.15 2007/11/10 05:28:59 jhunter Exp \$

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* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/IllegalTargetException.java

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\$Id: SAXHandler.java,v 1.73 2007/11/10 05:29:00 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/input/SAXHandler.java

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\$Id: ProcessingInstruction.java,v 1.47 2007/11/10 05:28:59 jhunter Exp \$

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\$Id: Element.java,v 1.159 2007/11/14 05:02:08 jhunter Exp \$

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\$Id: TextBuffer.java,v 1.10 2007/11/10 05:29:00 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/input/TextBuffer.java

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\$Id: Content.java,v 1.6 2007/11/10 05:28:58 jhunter Exp \$

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\$Id: SAXBuilder.java,v 1.92 2007/11/10 05:29:00 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/input/SAXBuilder.java

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/*--

\$Id: OracleV1DOMAdapter.java,v 1.20 2007/11/10 05:28:59 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/adapters/OracleVIDOMAdapter.java

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\$Id: Verifier.java,v 1.55 2007/11/10 05:28:59 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/Verifier.java

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\$Id: OrFilter.java,v 1.5 2007/11/10 05:29:00 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/filter/OrFilter.java

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\$Id: OracleV2DOMAdapter.java,v 1.19 2007/11/10 05:28:59 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/adapters/OracleV2DOMAdapter.java

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\$Id: XSLTransformer.java,v 1.5 2007/11/14 04:36:54 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/transform/XSLTransformer.java

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\$Id: ContentFilter.java,v 1.15 2007/11/10 05:29:00 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/filter/ContentFilter.java

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\$Id: UncheckedJDOMFactory.java,v 1.4 2007/11/10 05:28:59 jhunter Exp \$

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* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/UncheckedJDOMFactory.java

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\$Id: FilterIterator.java,v 1.6 2007/11/10 05:28:59 jhunter Exp \$

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\$Id: CrimsonDOMAdapter.java,v 1.17 2007/11/10 05:28:59 jhunter Exp \$

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* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/adapters/CrimsonDOMAdapter.java

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\$Id: XMLOutputter.java,v 1.116 2007/11/10 05:29:01 jhunter Exp \$

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* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/output/XMLOutputter.java

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\$Id: AbstractFilter.java,v 1.6 2007/11/10 05:29:00 jhunter Exp \$

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Found in path(s):

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\$Id: JDOMException.java,v 1.24 2007/11/10 05:28:59 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/JDOMException.java
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/*--

\$Id: IllegalAddException.java,v 1.26 2007/11/10 05:28:59 jhunter Exp \$

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\$Id: Document.java,v 1.85 2007/11/10 05:28:58 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/Namespace.java
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\$Id: JDOMResult.java,v 1.24 2007/11/10 05:29:02 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/transform/JDOMResult.java

1.215 asm-debug-all 5.0.4

1.216 pm-utils 1.4.1 27.el7

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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 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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1.218 ed 1.9 4.el7

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Version 3, 29 June 2007

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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 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.

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1. Source Code.

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.

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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

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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.

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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

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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.

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@c Local Variables:

@c ispell-local-pdict: "ispell-dict"

@c End:

1.219 grep 2.20-3.el7

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Version 3, 29 June 2007

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1.221 perl-parent 0.225 244.el7

1.222 copy-jdk-configs 3.3 10.el7_5

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1.223 binutils 2.27-44.base.el7_9.1

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@c Local Variables:

@c ispell-local-pdict: "ispell-dict"

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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.)

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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@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License

@center Version 2.1, February 1999

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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 @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.

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@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@ifinfo

@center GNU LESSER GENERAL PUBLIC LICENSE

@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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The modified work must itself be a software library.

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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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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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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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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.

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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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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.

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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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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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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.

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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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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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@end enumerate

@iftex

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@end iftex

@ifinfo

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@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.

@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}

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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.

@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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(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.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

+++++

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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1.224 vim 7.4.629-8.el7_9

1.224.1 Available under license :

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

VIM REFERENCE MANUAL by Bram Moolenaar

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

SUMMARY

iccf *ICCF*

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

<http://iccf-holland.org/>

<http://www.vim.org/iccf/>

<http://www.iccf.nl/>

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

The Open Publication License applies to the Vim documentation, see `|manual-copyright|`.

=== begin of license ===

VIM LICENSE

D) There are no restrictions on distributing unmodified copies of Vim except that they must include this license text. You can also distribute unmodified parts of Vim, likewise unrestricted except that they must include this license text. You are also allowed to include executables that you made from the unmodified Vim sources, plus your own usage examples and Vim scripts.

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b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.

d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:

- The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.
- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

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).

donate

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. Further more, 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:

https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q

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:

Rabobank Lisse, account 3765.05.117

Swift code: RABO NL 2U

under the name "Bram Moolenaar", Lisse

Otherwise, send a check in euro or US dollars to the address below. Minimal amount: \$70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:

Bram Moolenaar

Finsterruetihof 1

8134 Adliswil

Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:

/*

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1.225 xorg-x11-fonts 7.5 9.el7

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Juliusz Chroboczek

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* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-
jar/com/ctc/wstx/dtd/DFAValidator.java
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jar/com/ctc/wstx/dtd/StructValidator.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-
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* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-
jar/com/ctc/wstx/sw/SimpleOutputElement.java
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- * /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/dtd/DTDAtribute.java
- * /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/msv/RelaxNGSchema.java
- * /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/msv/W3CSchema.java
- * /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/util/ElementIdMap.java
- * /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/dtd/DTDSchemaFactory.java
- * /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/stax/WstxOutputFactory.java
- * /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/msv/GenericMsvValidator.java
- * /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/sw/NonNsStreamWriter.java
- * /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/util/SymbolTable.java
- * /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/evt/WstxEventReader.java
- * /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/sr/ValidatingStreamReader.java
- * /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-

jar/com/ctc/wstx/dtd/DefaultAttrValue.java

* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-

jar/com/ctc/wstx/dtd/DTDSUBSET.java

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* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-

jar/com/ctc/wstx/sax/WstxSAXParser.java

* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-

jar/com/ctc/wstx/sax/WstxSAXParserFactory.java

* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-

jar/com/ctc/wstx/sax/SAXProperty.java

* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-

jar/com/ctc/wstx/sax/SAXFeature.java

* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-

jar/com/ctc/wstx/sax/WrappedSaxException.java

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* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/sw/AsciiXmlWriter.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/io/WstxInputSource.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/dtd/DTDValidatorBase.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/sr/Attribute.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/dtd/DTDValidator.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/sw/TypedStreamWriter.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/dtd/DTDTypingNonValidator.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/sw/XmlWriter.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/dtd/DTDEventListener.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/sr/TypedStreamReader.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/dtd/MinimalDTDReader.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/sw/ISOLatin1XmlWriter.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/sw/BufferingXmlWriter.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/sr/InputElementStack.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/sr/AttributeCollector.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/sr/NsDefaultProvider.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/sw/EncodingXmlWriter.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/io/ISOLatinReader.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/sw/BaseStreamWriter.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/sw/XmlWriterWrapper.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/sr/BasicStreamReader.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/sr/StreamScanner.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/sr/Element.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/dtd/DTDSubsetImpl.java

* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/io/ReaderBootstrapper.java

* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/dtd/FullDTDReader.java

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* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/sw/BaseNsStreamWriter.java

* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/sw/SimpleNsStreamWriter.java

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* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/stax/WstxEventFactory.java

* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/io/WstxInputData.java

* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/io/UTF32Reader.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/dtd/PrefixNameSet.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/evt/DefaultEventAllocator.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/exc/WstxLazyException.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/io/UTF8Reader.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/util/BaseNsContext.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/util/PrefixName.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/exc/WstxException.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/evt/BaseStartElement.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/io/WstxInputLocation.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/io/EBCDICCodec.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/io/AsciiReader.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/ent/EntityDecl.java

1.230 libevent 2.0.21-4.el7

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1.231 mesa 18.3.4-12.el7_9

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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-aliasing based on Jimenez\' MLAA. 0 to disable, 8 for default
quality". Is this in compliance with your exception?

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>

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

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

1.232 perl-lwp-mediatypes 6.02 2.el7

1.233 gdb 7.6.1-120.el7

1.233.1 Available under license :

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```
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```

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

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Version 3, 29 June 2007

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with the library after making changes to the library and recompiling

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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.

@iftex

@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@end iftex

@ifinfo

@center GNU LESSER GENERAL PUBLIC LICENSE

@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@end ifinfo

@enumerate 0

@item

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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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@enumerate a

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@item

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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

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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 the scope of this License.

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@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.

@item

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@enumerate a

@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.

@item

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

@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.

@end enumerate

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@end enumerate

@iftex

@heading END OF TERMS AND CONDITIONS

@end iftex

@ifinfo

@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.

@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}

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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!

1.234 idna 2.4

1.234.1 Available under license :

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

""

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

""

```
import io, sys
```

```
from setuptools import setup
```

```
version = "2.4"
```

```

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,6):
        raise SystemExit("Sorry, Python 2.6 or newer required")

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': version,
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
            'Operating System :: OS Independent',
            'Programming Language :: Python',
            'Programming Language :: Python :: 2.6',
            'Programming Language :: Python :: 2.7',
            'Programming Language :: Python :: 3',
            'Programming Language :: Python :: 3.3',
            'Programming Language :: Python :: 3.4',
            'Programming Language :: Python :: 3.5',
            'Topic :: Internet :: Name Service (DNS)',
            'Topic :: Software Development :: Libraries :: Python Modules',
            'Topic :: Utilities',
        ],
        'test_suite': 'tests',
    }

    setup(**arguments)

if __name__ == '__main__':
    main()

```

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1073192095_1596538050.69/0/python-idna-2.4-1.el7-1.src.rpm-cosi-expand-archive-T43oinCV/idna-2.4.tar.gz-cosi-expand-archive-7rjKdsgo/idna-2.4/setup.py

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

License: BSD-like

Classifier: License :: OSI Approved :: BSD License

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1073192095_1596538050.69/0/python-idna-2.4-1.el7-1.src.rpm-cosi-expand-archive-T43oinCV/idna-2.4.tar.gz-cosi-expand-archive-7rjKdsgo/idna-2.4/idna.egg-info/PKG-INFO

* /opt/ws_local/PERMITS_SQL/1073192095_1596538050.69/0/python-idna-2.4-1.el7-1.src.rpm-cosi-expand-archive-T43oinCV/idna-2.4.tar.gz-cosi-expand-archive-7rjKdsgo/idna-2.4/PKG-INFO

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

License: BSD and Python and Unicode

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1073192095_1596538050.69/0/python-idna-2.4-1.el7-1.src.rpm-cosi-expand-archive-T43oinCV/python-idna.spec

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1.235 os-prober 1.58 9.el7

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1.236 python-boto 2.25.0-2.el7.centos

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1.237 parted 3.1 32.el7

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1.241 nss-util 3.67.0-1.el7_9

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This file contains a list of people who've made non-trivial
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1.242 pythonurllib 1.10.2 7.e17

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- * victor.vde <<http://code.google.com/u/victor.vde/>>
- * HTTPS patch (which inspired HTTPSConnectionPool)

- * erikcederstrand <<http://code.google.com/u/erikcederstrand/>>
- * NTLM-authenticated HTTPSConnectionPool
- * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

- * niphlod <niphlod@gmail.com>
- * Client-verified SSL certificates for HTTPSConnectionPool
- * Response gzip and deflate encoding support
- * Better unicode support for filepost using StringIO buffers

- * btoconnor <brian@btoconnor.net>
- * Non-multipart encoding for POST requests

- * p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>
- * Code review, PEP8 compliance, benchmark fix

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- * IPv6 url support and test coverage

- * Shivaram Lingamneni <slingamn@cs.stanford.edu>
- * Support for explicitly closing pooled connections

- * hartator <hartator@gmail.com>
- * Corrected multipart behavior for params

- * Thomas Weischuh <thomas@t-8ch.de>
- * Support for TLS SNI
- * API unification of ssl_version/cert_reqs
- * SSL fingerprint and alternative hostname verification
- * Bugfixes in testsuite

- * Sune Kirkeby <mig@ibofobi.dk>
- * Optional SNI-support for Python 2 via PyOpenSSL.

- * Marc Schlaich <marc.schlaich@gmail.com>
- * Various bugfixes and test improvements.

- * Bryce Boe <bbzbryce@gmail.com>
- * Correct six.moves conflict
- * Fixed pickle support of some exceptions

- * Boris Figovsky <boris.figovsky@ravellosystems.com>
- * Allowed to skip SSL hostname verification

- * Cory Benfield <<http://lukasa.co.uk/about/>>
- * Stream method for Response objects.
- * Return native strings in header values.
- * Generate 'Host' header when using proxies.

- * Jason Robinson <jaywink@basshero.org>
- * Add missing WrappedSocket.fileno method in PyOpenSSL

- * Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- * Fixed a race condition

- * Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- * Added HTTPS (CONNECT) proxy support

- * Stephen Holsapple <sholsapp@gmail.com>
- * Added abstraction for granular control of request fields

- * Martin von Gagern <Martin.vGagern@gmx.net>
- * Support for non-ASCII header parameters

- * Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- * Support for separate connect and request timeouts

- * Peter Waller <p@pwaller.net>
- * HTTPResponse.tell() for determining amount received over the wire

- * Nipunn Koorapati <nipunn1313@gmail.com>
- * Ignore default ports when comparing hosts for equality

- * Danilo @dbrgn <http://dbrgn.ch/>
- * Disabled TLS compression by default on Python 3.2+
- * Disabled TLS compression in pyopenssl contrib module
- * Configurable cipher suites in pyopenssl contrib module

- * Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- * Account retries on proxy errors

- * Nicolas Delaby <nicolas.delaby@ezeep.com>
- * Use the platform-specific CA certificate locations

- * Josh Schneier <https://github.com/jschneier>
- * HTTPHeaderDict and associated tests and docs
- * Bugfixes, docs, test coverage

- * Tahia Khan <http://tahia.tk/>
- * Added Timeout examples in docs

- * Arthur Grunseid <http://grunseid.com>
- * source_address support and tests (with https://github.com/bui)

- * Ian Cordasco <graffatcolmingov@gmail.com>
- * PEP8 Compliance and Linting
- * Add ability to pass socket options to an HTTP Connection

- * Erik Tollerud <erik.tollerud@gmail.com>
- * Support for standard library io module.

- * Krishna Prasad <kprasad.iitd@gmail.com>
- * Google App Engine documentation

- * Aaron Meurer <asmeurer@gmail.com>
- * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>

* Bugfixes

* Benjamin Meyer <bm_witness@yahoo.com>

* Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>

* Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>

* Updates to the default SSL configuration

* [Your name or handle] <[email or website]>

* [Brief summary of your changes]

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1.243 cyrus-sasl 2.1.26-24.e17_9

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* Tim Martin

* Rob Earhart

* Rob Siemborski

*/

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* Tim Martin
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* Rob Earhart
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* Rob Siemborski
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1.246 pam 1.1.8 23.el7

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And Very Special Thanks To:
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1.251 selinux 2.5-8.el7

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```
## *-makefile*-
```

```
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
```

```
## Copyright (c) 1999-2009, International Business Machines Corporation and
```

```
## others. All Rights Reserved.
```

```
## 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) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

## 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
```

1.253 jsonpatch 1.2

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Version 3, 29 June 2007

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1.254 libqrencode 3.4.1-3.el7

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Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script

- * in C (faster - it is executed many times during system startup).
- *
- * Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>.
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1.260 geo-ip 1.5.0 14.el7

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1.262 sgpio 1.2.0.10 13.e17

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Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Snchez, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blttermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frdric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frdric
Margeviius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarar, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer

1.270 libpipeline 1.2.3 3.e17

1.270.1 Available under license :

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1.273 perl-pod-perldoc 3.20 4.e17

1.274 python-jsonpointer 1.9 2.e17

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1.275 cairo 1.14.6

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1.276 harfbuzz 1.2.7

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1.281 libxcursor 1.1.15 1.e17

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1.284 libxi 1.1.3 2.1.e17

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1.285 perl-encode 2.51 7.el7

1.286 libice 1.0.9-9.el7

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1.287 polkit 0.112-26.el7_9.1

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1.288 libaio 0.3.109-13.el7

1.289 mime-pull 1.9.4

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1.290 perl-http-tiny 0.033 3.e17

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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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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) 19xx 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.

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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
```

That's all there is to it!

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1.291 glib 2.56.1-9.el7_9

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1.293 grub2 2.02-0.87.0.1.el7.centos.9

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1.296 javassist 3.18.1-GA

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Found in path(s):

* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/util/proxy/ProxyFactory.java
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* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/ClassFile.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/runtime/Desc.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/ClassFilePrinter.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/scopedpool/ScopedClassPoolRepository.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/AssignExpr.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/analysis/Util.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/expr/Instanceof.java
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* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/analysis/MultiArrayType.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/Descriptor.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/Keyword.java
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* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/MemberResolver.java
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- * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/convert/TransformAccessArrayField.java
- * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/runtime/Cflow.java
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- * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/tools/reflect/Reflection.java
- * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/CtMethod.java
- * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/ConstPool.java
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- * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/convert/TransformNew.java
- * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/convert/TransformAfter.java
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- * /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/ClassClassPath.java
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1.299 unzip 6.0-24.el7_9

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There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):

Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port).. These copyrights are discussed in more detail below.

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

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

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 License. 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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* MoreFiles
 *
 * A collection of File Manager and related routines
 *
 * by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
 * with significant code contributions by Nitin Ganatra
 * (Apple Macintosh Developer Technical Support Emeritus)
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* MacBinaryIII.h
 *
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 *
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 * -----
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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-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 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 contributions as useful as we have his.

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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.

1.300 libteam 1.29-3.el7

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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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1.301 eclipse-persistence-moxy 2.6.1

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<title>Eclipse License</title>

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</div>

<div class=Section2>

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1.302 python-chardet 2.2.1 3.el7

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</div>

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1.303 libveto 0.2.5 4.e17

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1.304 systemd 219-78.el7_9.5

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1.305 irqbalance 1.0.7 12.el7

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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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- 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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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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1.310 libusbx 1.0.21 1.e17

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1.311 perl-getopt-long 2.40 3.el7

1.312 libpwquality 1.2.3 5.el7

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* @version 3.0 (December 2000)

*

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*

* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

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* Foremost, OpenSSH from which this project is derived.

* Jamie Beverly

* Rafael D'Halleweyn - 2011-06-05 18:56:24 EDT

* Jan-Pieter Cornet (johnpc) - 2012-03-23 03:25:52 PDT

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1.316 elfutils 0.176-5.el7

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1.319 pciutils 3.5.1-3.el7

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Ty Coon, President of Vice
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* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/service/condpermadmin/ConditionalPermissionAdmin.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/service/condpermadmin/BundleSignerCondition.java
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* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/service/condpermadmin/ConditionalPermissionUpdate.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/hooks/service/FindHook.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/hooks/service/EventHook.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/hooks/service/ListenerHook.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/launch/Framework.java

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* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/service/condpermadmin/ConditionInfo.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/FrameworkEvent.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-

jar/org/osgi/service/condpermadmin/ConditionalPermissionInfo.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-
jar/org/osgi/framework/Version.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-
jar/org/osgi/framework/BundlePermission.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-
jar/org/osgi/service/condpermadmin/Condition.java
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* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-
jar/org/osgi/service/condpermadmin/BundleLocationCondition.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-
jar/org/osgi/framework/AllServiceListener.java
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* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/launch/FrameworkFactory.java

* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/SignerProperty.java

* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/BundleReference.java

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* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/service/packageadmin/RequiredBundle.java

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*/

/**

* Return the certificates for the signers of this bundle and the

* certificate chains for those signers.

```

*
* @param signersType If { @link #SIGNERS_ALL } is specified, then information
*   on all signers of this bundle is returned. If
*   { @link #SIGNERS_TRUSTED } is specified, then only information on
*   the signers of this bundle trusted by the framework is returned.
* @return The <code>X509Certificate</code>s for the signers of this bundle
*   and the <code>X509Certificate</code> chains for those signers.
*   The keys of the <code>Map</code> are the
*   <code>X509Certificate</code>s of the signers of this bundle. The
*   value for a key is a <code>List</code> containing the
*   <code>X509Certificate</code> chain for the signer. The first item
*   in the <code>List</code> is the signer's
*   <code>X509Certificate</code> which is then followed by the rest
*   of the <code>X509Certificate</code> chain. The returned
*   <code>Map</code> will be empty if there are no signers. The
*   returned <code>Map</code> is the property of the caller who is
*   free to modify it.
* @throws IllegalArgumentException If the specified
*   <code>signersType</code> is not { @link #SIGNERS_ALL } or
*   { @link #SIGNERS_TRUSTED }.
* @since 1.5
*/

```

Found in path(s):

```

* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-
jar/org/osgi/framework/Bundle.java

```

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```

* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-
jar/org/osgi/framework/SynchronousBundleListener.java

```

```

* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-

```

jar/org/osgi/service/permissionadmin/PermissionAdmin.java

* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-

jar/org/osgi/service/packageadmin/ExportedPackage.java

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jar/org/osgi/framework/ServiceException.java

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jar/org/osgi/framework/BundleException.java

* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-

jar/org/osgi/framework/InvalidSyntaxException.java

* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-

jar/org/osgi/framework/ServiceFactory.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-
jar/org/osgi/framework/FrameworkListener.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-
jar/org/osgi/framework/BundleListener.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-
jar/org/osgi/framework/ServiceListener.java
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jar/org/osgi/framework/BundleActivator.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-
jar/org/osgi/framework/BundleContext.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-
jar/org/osgi/framework/BundleEvent.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-
jar/org/osgi/framework/ServiceEvent.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-
jar/org/osgi/framework/ServiceRegistration.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-
jar/org/osgi/framework/ServicePermission.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-
jar/org/osgi/framework/ServiceReference.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/Filter.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-
jar/org/osgi/framework/Configurable.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-
jar/org/osgi/framework/AdminPermission.java
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jar/org/osi/service/url/URLStreamHandlerService.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osi-core-4-2-0-sources-2-
jar/org/osi/service/url/URLStreamHandlerSetter.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osi-core-4-2-0-sources-2-
jar/org/osi/service/url/AbstractURLStreamHandlerService.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osi-core-4-2-0-sources-2-
jar/org/osi/service/url/URLConstants.java
```

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*/
```

```
/**
* Creates a new PackagePermission object.
*
* <p>
* The name is specified as a normal Java package name: a dot-separated
* string. Wildcards may be used.
*
*/
```

```

* <pre>
* name ::= &lt;package name&gt; | &lt;package name ending in &quot;*&quot;&gt; | *
* </pre>
*
* Examples:
*
* <pre>
* org.osgi.service.http
* javax.servlet.*
* *
* </pre>
*
* For the <code>import</code> action, the name can also be a filter
* expression. The filter gives access to the following attributes:
* <ul>
* <li>signer - A Distinguished Name chain used to sign the exporting
* bundle. Wildcards in a DN are not matched according to the filter string
* rules, but according to the rules defined for a DN chain.</li>
* <li>location - The location of the exporting bundle.</li>
* <li>id - The bundle ID of the exporting bundle.</li>
* <li>name - The symbolic name of the exporting bundle.</li>
* <li>package.name - The name of the requested package.</li>
* </ul>
* Filter attribute names are processed in a case sensitive manner.
*
* <p>
* Package Permissions are granted over all possible versions of a package.
*
* A bundle that needs to export a package must have the appropriate
* <code>PackagePermission</code> for that package; similarly, a bundle that
* needs to import a package must have the appropriate
* <code>PackagePermssion</code> for that package.
* <p>
* Permission is granted for both classes and resources.
*
* @param name Package name or filter expression. A filter expression can
* only be specified if the specified action is <code>import</code>.
* @param actions <code>exportonly</code>,<code>import</code> (canonical
* order).
* @throws IllegalArgumentException If the specified name is a filter
* expression and either the specified action is not
* <code>import</code> or the filter has an invalid syntax.
*/

```

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```

* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-
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 */
```

Found in path(s):

```
* /opt/cola/permits/1136651970_1613848941.46/0/org-osi-core-4-2-0-sources-2-
jar/org/osi/service/permissionadmin/PermissionInfo.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osi-core-4-2-0-sources-2-
jar/org/osi/service/packageadmin/PackageAdmin.java
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 */
```

```
/**
 * Specified the persistent storage area used by the framework. The value of
 * this property must be a valid file path in the file system to a
 * directory. If the specified directory does not exist then the framework
 * will create the directory. If the specified path exists but is not a
 * directory or if the framework fails to create the storage directory, then
 * framework initialization must fail. The framework is free to use this
 * directory as it sees fit. This area can not be shared with anything else.
```

```
* <p>  
* If this property is not set, the framework should use a reasonable  
* platform default for the persistent storage area.  
*  
* @since 1.5  
*/
```

Found in path(s):

```
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-  
jar/org/osgi/framework/Constants.java
```

1.321 hwdata 0.252-9.7.e17

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1.322 Idns 1.8.1

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* For the purpose of generating a test zone file  
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1.323 persistence-api 1.0

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1.325 linux_kernel_zlib 3.10.0-1160.76.1.el7

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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.

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:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

```
GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991
```

```
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675 Mass Ave, Cambridge, MA 02139, USA
```

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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.]

Preamble

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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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<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!

```
/* 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
* details.
*
*
*
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* along with this program; if not, write to the Free Software
* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*
*/

```

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

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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 Program, 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 Program, 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 Program.

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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON

(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
for his LIRC infrared handler

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...and all the other dbox2 people

for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>

Roberto Ragusa <r.ragusa@libero.it>

Augusto Cardoso <augusto@carhil.net>

for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>

for his work on the budget drivers, the demux code,
the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>

for his work on calculating and checking the crc's for the
TechnoTrend/Hauppauge DEC driver firmware

Michael Dreher <michael@5dot1.de>

Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>
for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufky@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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1.326 yum-utils 1.1.31-54.el7_8

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Ty Coon, President of Vice
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1.328 dc 1.3

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* /opt/cola/permits/1125758851_1613553092.69/0/tangdxi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdxi-DCPathButton-39be410/DCPathButton/Classes/DCPathItemButton.m
* /opt/cola/permits/1125758851_1613553092.69/0/tangdxi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdxi-DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathItemButton.m
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* /opt/cola/permits/1125758851_1613553092.69/0/tangdxi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdxi-DCPathButton-39be410/Example/Example/AppDelegate.m
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* /opt/cola/permits/1125758851_1613553092.69/0/tangdxi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdxi-DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathItemButton.h
* /opt/cola/permits/1125758851_1613553092.69/0/tangdxi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdxi-DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathButton.h
* /opt/cola/permits/1125758851_1613553092.69/0/tangdxi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdxi-DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathItemButton.m
* /opt/cola/permits/1125758851_1613553092.69/0/tangdxi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdxi-DCPathButton-39be410/DCPathButton/Classes/DCPathButton.m
* /opt/cola/permits/1125758851_1613553092.69/0/tangdxi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdxi-DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathButton.m
```

```
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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton/Classes/DCPathButton.h
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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathButton.h
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/ViewController.h
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathButton.m
No license file was found, but licenses were detected in source scan.
```

<string>The DCPathButton use the MIT license</string>

Found in path(s):

```
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/Target Support Files/Pods/Pods-acknowledgements.plist
No license file was found, but licenses were detected in source scan.
```

// Copyright (c) 2015 DC. All rights reserved.

Found in path(s):

```
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-Swift/ViewController.swift
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-Swift-Bridging-Header.h
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-SwiftTests/Example_SwiftTests.swift
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-Swift/AppDelegate.swift
No license file was found, but licenses were detected in source scan.
```

Pod::Spec.new do |s|

```
s.name      = "DCPathButton"
s.version   = "2.1.1"
s.summary   = " A beautiful button copy from Path® "
```

```
s.description = <<-DESC
```

```
DCPathButton is a menu button, design by an famous App Path®.
Since Path® 4.0, it return to use a tab bar instead of a side bar,
and also change the menu button. So I try to implement it and then
the DCPathButton born :)
```

```
DESC
```

```
s.homepage = "https://github.com/Tangdixi/DCPathButton"
```

```
s.license = {
:type => 'MIT',
:text => 'The DCPATHButton use the MIT license'
}

s.author = { "Tangdixi" => "Tangdixi@gmail.com" }

s.platform = :ios, '7.0'

s.source = {
:git => "https://github.com/Tangdixi/DCPATHButton.git",
:tag => "2.1.1"
}

s.source_files = 'DCPATHButton/Classes/*.{h,m}'

s.resources = ["DCPATHButton/Sounds/*"]

s.frameworks = 'QuartzCore','AudioToolbox'

s.requires_arc = true

end
```

Found in path(s):

```
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPATHButton-39be410/DCPATHButton.podspec
```

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Found in path(s):

* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/LISENCE

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```
<label opaque="NO" clipsSubviews="YES" userInteractionEnabled="NO" contentMode="left"
horizontalHuggingPriority="251" verticalHuggingPriority="251" text=" Copyright (c) 2015 DC. All rights
reserved." textAlignment="center" lineBreakMode="tailTruncation" baselineAdjustment="alignBaselines"
minimumFontSize="9" translatesAutoresizingMaskIntoConstraints="NO" id="8ie-xW-0ye">
```

Found in path(s):

* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-Swift/Base.lproj/LaunchScreen.xib

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DCPATHButton

The DCPATHButton use the MIT license

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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPATHButton/README.md

* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/README.md

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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/BarButtonItemViewController.h

* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/BarButtonItemViewController.m

1.329 strace 4.24-6.el7

1.329.1 Available under license :

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1.330 yum-metadata-parser 1.1.4 10.el7

1.330.1 Available under license :

From RPM File Metadata:GPLv2

1.331 eclipse-persistence-antlr 2.6.1

1.331.1 Available under license :

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1.332 python-kitchen 1.1.1 5.e17

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Version 2.1, February 1999

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1.337 kpatch 0.6.1 6.e17

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```

```
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*/

/**

- * Creates a new JSRInliner. *<i>Subclasses must not use this*
- * constructor</i>. Instead, they must use the
- * {[@link #JSRInlinerAdapter\(int, MethodVisitor, int, String, String, String, String\[\]\)](#)}
- * version.
- *
- * [@param mv](#)
- * the `MethodVisitor` to send the resulting inlined
- * method code to (use `null` for none).
- * [@param access](#)
- * the method's access flags (see {[@link Opcodes](#)}). This
- * parameter also indicates if the method is synthetic and/or
- * deprecated.
- * [@param name](#)
- * the method's name.
- * [@param desc](#)
- * the method's descriptor (see {[@link Type](#)}).
- * [@param signature](#)
- * the method's signature. May be `null`.
- * [@param exceptions](#)
- * the internal names of the method's exception classes (see
- * {[@link Type#getInternalName\(\) getInternalName](#)}). May be
- * `null`.
- * [@throws IllegalStateException](#)

* If a subclass calls this constructor.

*/

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/**

* Creates a new {@link GeneratorAdapter}. *Subclasses must not use this*

* constructor*.* Instead, they must use the

* {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}

* version.

*

* @param mv

* the method visitor to which this adapter delegates calls.

* @param access

* the method's access flags (see {@link Opcodes}).

* @param name

* the method's name.

* @param desc

* the method's descriptor (see {@link Type Type}).

* @throws IllegalStateException

* If a subclass calls this constructor.

*/

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* THE POSSIBILITY OF SUCH DAMAGE.
*/
/**
 * Constructs a new {@link Textifier}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the {@link #Textifier(int)}
 * version.
 *
 * @throws IllegalStateException
 *         If a subclass calls this constructor.
 */

```

Found in path(s):

```

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/Textifier.java
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*/

/**

* Constructs a new {@link ClassNode}. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the {@link #ClassNode(int)}
* version.

*

* @throws IllegalStateException

* If a subclass calls this constructor.

*/

Found in path(s):

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/ClassNode.java

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*/

/**

* Constructs a new {[@link LocalVariableAnnotationNode](#)}. *<i>*Subclasses must
* not use this constructor*</i>*. Instead, they must use the
* {[@link #LocalVariableAnnotationNode\(int, TypePath, LabelNode\[\], LabelNode\[\], int\[\], String\)](#)}
* version.

*

* [@param typeRef](#)
* a reference to the annotated type. See {[@link TypeReference](#)}.

* [@param typePath](#)
* the path to the annotated type argument, wildcard bound, array
* element type, or static inner type within 'typeRef'. May be
* `<tt>null</tt>` if the annotation targets 'typeRef' as a whole.

* [@param start](#)
* the first instructions corresponding to the continuous ranges
* that make the scope of this local variable (inclusive).

* [@param end](#)
* the last instructions corresponding to the continuous ranges
* that make the scope of this local variable (exclusive). This
* array must have the same size as the 'start' array.

* [@param index](#)
* the local variable's index in each range. This array must have
* the same size as the 'start' array.

* [@param desc](#)
* the class descriptor of the annotation class.

*/

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- * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Type.java
- * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/AnnotationWriter.java
- * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
- * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/NameMapping.java
- * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/Printer.java
- * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/Shrinker.java
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- * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
- * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
- * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
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- * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Attribute.java
- * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-

jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/MethodInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/MethodVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/util/TraceFieldVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
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jar/org/objectweb/asm/commons/Remapper.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/ConstantPool.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/Textifiable.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/ASMifiable.java

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*/

/**

* Creates a new { @link AnalyzerAdapter}. *Subclasses must not use this*

* constructor*.* Instead, they must use the

* { @link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}

* version.

*

* @param owner

* the owner's class name.

* @param access

* the method's access flags (see { @link Opcodes}).

* @param name

* the method's name.

* @param desc

* the method's descriptor (see { @link Type Type}).

* @param mv

* the method visitor to which this adapter delegates calls. May

* be `null`.


```
* @throws IllegalStateException
*     If a subclass calls this constructor.
*/
```

Found in path(s):

```
*/opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/commons/AnalyzerAdapter.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/shrink-frames.properties

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/shrink-resize.properties

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/shrink-signatures.properties

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1.339 passwd 0.79 6.el7

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```

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1.341 saaj 1.3.25

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1.342 python-requests 2.6.0-10.el7

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1.343 sblim-cmpi-base 1.6.2 8.e17

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1.344 usbutils 007 5.e17

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```
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under certain conditions; type `show c' for details.
```

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```
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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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1.348 mlocate 0.26 8.el7

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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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```
# canonicalize-lgpl.m4 serial 4
```

```
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```

```
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```

```
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```

```
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```

```
AC_DEFUN([gl_CANONICALIZE_LGPL],
```

```
[
```

```
dnl Do this replacement check manually because the file name is shorter
dnl than the function name.
```

```
AC_CHECK_DECLS_ONCE(canonicalize_file_name)
```

```
AC_CHECK_FUNCS_ONCE(canonicalize_file_name)
```

```
if test $ac_cv_func_canonicalize_file_name = no; then
```

```
  AC_LIBOBJ(canonicalize-lgpl)
```

```
  AC_DEFINE([realpath], [rpl_realpath],
```

```
    [Define to a replacement function name for realpath().])
```

```
  gl_PREREQ_CANONICALIZE_LGPL
```

```
fi
```

```
])
```

```
# Like gl_CANONICALIZE_LGPL, except prepare for separate compilation
```

```
# (no AC_LIBOBJ).
```

```
AC_DEFUN([gl_CANONICALIZE_LGPL_SEPARATE],
```

```
[
```

```
AC_CHECK_DECLS_ONCE(canonicalize_file_name)
```

```
AC_CHECK_FUNCS_ONCE(canonicalize_file_name)
```

```
gl_PREREQ_CANONICALIZE_LGPL
```

```
)  
  
# Prerequisites of lib/canonicalize-1gpl.c.  
AC_DEFUN([gl_PREREQ_CANONICALIZE_LGPL],  
[  
  AC_CHECK_HEADERS_ONCE(sys/param.h unistd.h)  
  AC_CHECK_FUNCS_ONCE(getcwd readlink)  
])
```

1.349 perl-pod-usage 1.63 3.el7

1.350 python-babel 0.9.6 8.el7

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1.351 prettytable 0.7.2-7.ph4

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1.352 usermode 1.111 6.el7

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```
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```

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<signature of Ty Coon>, 1 April 1989
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1.353 dbus-python 1.1.1 9.e17

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1.354 iputils 20160308-10.el7

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Ty Coon, President of Vice
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The End

1.356 perl-threads-shared 1.43 6.el7

1.357 gssproxy 0.7.0-30.el7_9

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1.358 libnl3 3.2.28 4.el7

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1.360 sblim-indication-helper 0.4.2 12.el7

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1.361 perl-io-socket-ip 0.21 5.el7

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The End

1.362 libdwarf 20130207 4.e17

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Version 2.1, February 1999

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1.369 perl-data-dumper 2.145 3.el7

1.370 ustr 1.0.4 16.el7

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1.372 bzip2 1.0.6 13.e17

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

1.373 tomcat 8.5.82

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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
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- javaee_5.xsd
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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd

- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- web-app_3_0.xsd
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- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd

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1.374 net-snmp 5.6.2

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1.378 python-linux-procfs 0.4.11 4.el7

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1.379 bc 1.06.95 13.e17

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```
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```
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1.384 pcre 8.32 17.el7

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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel

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1.385 unbound 1.9.2

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1.386 python-six 1.9.0 2.e17

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```
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-
jar/javax/validation/bootstrap/package-info.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-
jar/javax/validation/metadata/CascadableDescriptor.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-
jar/javax/validation/ConstraintTarget.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-
jar/javax/validation/metadata/GroupConversionDescriptor.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-
jar/javax/validation/metadata/CrossParameterDescriptor.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-
jar/javax/validation/spi/package-info.java
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jar/javax/validation/executable/package-info.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-
jar/javax/validation/constraints/package-info.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/package-
info.java
```

* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/package-info.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraintvalidation/ValidationTarget.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraintvalidation/package-info.java
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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/ReturnValueDescriptor.java

* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/executable/ExecutableValidator.java

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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintValidatorFactory.java

* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/ValidatorFactory.java

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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/groups/package-info.java

* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintViolation.java

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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/Validation.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/AssertFalse.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/TraversableResolver.java
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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/Payload.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintDefinitionException.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/spi/ValidationProvider.java
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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Null.java
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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/UnexpectedTypeException.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/bootstrap/GenericBootstrap.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Digits.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/bootstrap/ProviderSpecificBootstrap.java
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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Pattern.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintValidator.java

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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/PropertyDescriptor.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/ElementDescriptor.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/NotNull.java
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1.395 jfreechart 1.0.1

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That's all there is to it!

1.396 perl-business-isbn-data 20120719.001

2.el7

1.396.1 Available under license :

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1.397 python-ipaddress 1.0.16 2.el7

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1.398 gtk 2.24.31 1.e17

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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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(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 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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1.408 json-c 0.11 4.e17_0

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1.413 attr 2.4.46 13.e17

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1.414 zlib 1.2.3

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1.415 dtd-parser 1.1

1.416 linux-firmware 25.30.13.0-80.el7_9

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1.417 linux-kernel 3.10.0-1160.76.1.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.

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* 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

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* 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

* details.

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* M. Welsh, 6 July 1996
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```
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```

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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>

for the initial saa7146 driver and its recent overhaul

Christian Theiss

for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>

Ralph Metzler <rjkm@metzlerbros.de>

for their continuing work on the DVB driver

Michael Holz <kju@debian.org>

for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacom.it>

for CyberLogin for Linux which allows logging onto EON

(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>

for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>

for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>

for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>

for his LIRC infrared handler

Andreas Oberritter <obi@linuxtv.org>

Dennis Noermann <dennis.noermann@noernet.de>

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Florian Schirmer <jolt@tuxbox.org>

Ronny Strutz <3des@elitedvb.de>

Wolfram Joost <dbox2@frokaschwei.de>

...and all the other dbox2 people

for many bugfixes in the generic DVB Core, frontend drivers and their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>

for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>

for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>
Augusto Cardoso <augusto@carhil.net>
for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code,
the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc's for the
TechnoTrend/Hauppauge DEC driver firmware

Michael Dreher <michael@5dot1.de>
Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>
for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufky@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a line to the DVB mailing list)

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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.

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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) 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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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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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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- 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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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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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.

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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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- * Paolo Di Maio

- * Rory Yorke
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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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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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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!

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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.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

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.

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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.

1. Source Code.

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.

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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.

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

1.426 xmlrpc-c 1.32.5 1905.svn2451.e17

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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.

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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.

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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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1.428 linux-firmware 8.24.2.2-80.el7_9

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Version 3, 29 June 2007

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1.432 python 2.7.5-92.el7_9

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A. HISTORY OF THE SOFTWARE

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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.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes

2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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1.433 diffutils 3.3 5.el7

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```
#define GDIFF_MAIN
#include "diff.h"
#include <assert.h>
#include "paths.h"
#include <c-stack.h>
#include <dirname.h>
#include <error.h>
#include <exclude.h>
#include <exitfail.h>
#include <filenamecat.h>
#include <file-type.h>
#include <fnmatch.h>
#include <getopt.h>
#include <hard-locale.h>
#include <prepargs.h>
#include <progname.h>
#include <sh-quote.h>
#include <stat-time.h>
#include <timespec.h>
#include <version-etc.h>
#include <xalloc.h>
#include <xreadlink.h>
```

```

#include <binary-io.h>

/* The official name of this program (e.g., no 'g' prefix). */
#define PROGRAM_NAME "diff"

#define AUTHORS \
proper_name ("Paul Eggert"), \
proper_name ("Mike Haertel"), \
proper_name ("David Hayes"), \
proper_name ("Richard Stallman"), \
proper_name ("Len Tower")

#ifndef GUTTER_WIDTH_MINIMUM
# define GUTTER_WIDTH_MINIMUM 3
#endif

struct regexp_list
{
char *regexps; /* chars representing disjunction of the regexps */
size_t len; /* chars used in 'regexps' */
size_t size; /* size malloc'ed for 'regexps'; 0 if not malloc'ed */
bool multiple_regexps; /* Does 'regexps' represent a disjunction? */
struct re_pattern_buffer *buf;
};

static int compare_files (struct comparison const *, char const *, char const *);
static void add_regexp (struct regexp_list *, char const *);
static void summarize_regexp_list (struct regexp_list *);
static void specify_style (enum output_style);
static void specify_value (char const **, char const *, char const *);
static void try_help (char const *, char const *) __attribute__((noreturn));
static void check_stdout (void);
static void usage (void);

/* If comparing directories, compare their common subdirectories
recursively. */
static bool recursive;

/* In context diffs, show previous lines that match these regexps. */
static struct regexp_list function_regexp_list;

/* Ignore changes affecting only lines that match these regexps. */
static struct regexp_list ignore_regexp_list;

#if O_BINARY
/* Use binary I/O when reading and writing data (--binary).
On POSIX hosts, this has no effect. */
static bool binary;

```

```

#else
enum { binary = true };
#endif

/* If one file is missing, treat it as present but empty (-N). */
static bool new_file;

/* If the first file is missing, treat it as present but empty
(--unidirectional-new-file). */
static bool unidirectional_new_file;

/* Report files compared that are the same (-s).
Normally nothing is output when that happens. */
static bool report_identical_files;

static char const shortopts[] =
"0123456789abBcC:dD:eEfF:hHiI:lL:nNpPqrsS:tTuU:vwW:x:X:yZ";

/* Values for long options that do not have single-letter equivalents. */
enum
{
    BINARY_OPTION = CHAR_MAX + 1,
    FROM_FILE_OPTION,
    HELP_OPTION,
    HORIZON_LINES_OPTION,
    IGNORE_FILE_NAME_CASE_OPTION,
    INHIBIT_HUNK_MERGE_OPTION,
    LEFT_COLUMN_OPTION,
    LINE_FORMAT_OPTION,
    NO_DEREFERENCE_OPTION,
    NO_IGNORE_FILE_NAME_CASE_OPTION,
    NORMAL_OPTION,
    SDIFF_MERGE_ASSIST_OPTION,
    STRIP_TRAILING_CR_OPTION,
    SUPPRESS_BLANK_EMPTY_OPTION,
    SUPPRESS_COMMON_LINES_OPTION,
    TABSIZE_OPTION,
    TO_FILE_OPTION,

    /* These options must be in sequence. */
    UNCHANGED_LINE_FORMAT_OPTION,
    OLD_LINE_FORMAT_OPTION,
    NEW_LINE_FORMAT_OPTION,

    /* These options must be in sequence. */
    UNCHANGED_GROUP_FORMAT_OPTION,
    OLD_GROUP_FORMAT_OPTION,
    NEW_GROUP_FORMAT_OPTION,

```

```

CHANGED_GROUP_FORMAT_OPTION
};

static char const group_format_option[][sizeof "--unchanged-group-format"] =
{
    "--unchanged-group-format",
    "--old-group-format",
    "--new-group-format",
    "--changed-group-format"
};

static char const line_format_option[][sizeof "--unchanged-line-format"] =
{
    "--unchanged-line-format",
    "--old-line-format",
    "--new-line-format"
};

static struct option const longopts[] =
{
    {"binary", 0, 0, BINARY_OPTION},
    {"brief", 0, 0, 'q'},
    {"changed-group-format", 1, 0, CHANGED_GROUP_FORMAT_OPTION},
    {"context", 2, 0, 'C'},
    {"ed", 0, 0, 'e'},
    {"exclude", 1, 0, 'x'},
    {"exclude-from", 1, 0, 'X'},
    {"expand-tabs", 0, 0, 't'},
    {"forward-ed", 0, 0, 'f'},
    {"from-file", 1, 0, FROM_FILE_OPTION},
    {"help", 0, 0, HELP_OPTION},
    {"horizon-lines", 1, 0, HORIZON_LINES_OPTION},
    {"ifdef", 1, 0, 'D'},
    {"ignore-all-space", 0, 0, 'w'},
    {"ignore-blank-lines", 0, 0, 'B'},
    {"ignore-case", 0, 0, 'i'},
    {"ignore-file-name-case", 0, 0, IGNORE_FILE_NAME_CASE_OPTION},
    {"ignore-matching-lines", 1, 0, 'I'},
    {"ignore-space-change", 0, 0, 'b'},
    {"ignore-tab-expansion", 0, 0, 'E'},
    {"ignore-trailing-space", 0, 0, 'Z'},
    {"inhibit-hunk-merge", 0, 0, INHIBIT_HUNK_MERGE_OPTION},
    {"initial-tab", 0, 0, 'T'},
    {"label", 1, 0, 'L'},
    {"left-column", 0, 0, LEFT_COLUMN_OPTION},
    {"line-format", 1, 0, LINE_FORMAT_OPTION},
    {"minimal", 0, 0, 'd'},
    {"new-file", 0, 0, 'N'},

```

```

{"new-group-format", 1, 0, NEW_GROUP_FORMAT_OPTION},
{"new-line-format", 1, 0, NEW_LINE_FORMAT_OPTION},
{"no-dereference", 0, 0, NO_DEREFERENCE_OPTION},
{"no-ignore-file-name-case", 0, 0, NO_IGNORE_FILE_NAME_CASE_OPTION},
{"normal", 0, 0, NORMAL_OPTION},
{"old-group-format", 1, 0, OLD_GROUP_FORMAT_OPTION},
{"old-line-format", 1, 0, OLD_LINE_FORMAT_OPTION},
{"paginate", 0, 0, 'I'},
{"rcs", 0, 0, 'n'},
{"recursive", 0, 0, 'r'},
{"report-identical-files", 0, 0, 's'},
{"sdiff-merge-assist", 0, 0, SDIFF_MERGE_ASSIST_OPTION},
{"show-c-function", 0, 0, 'p'},
{"show-function-line", 1, 0, 'F'},
{"side-by-side", 0, 0, 'y'},
{"speed-large-files", 0, 0, 'H'},
{"starting-file", 1, 0, 'S'},
{"strip-trailing-cr", 0, 0, STRIP_TRAILING_CR_OPTION},
{"suppress-blank-empty", 0, 0, SUPPRESS_BLANK_EMPTY_OPTION},
{"suppress-common-lines", 0, 0, SUPPRESS_COMMON_LINES_OPTION},
{"tabsize", 1, 0, TABSIZE_OPTION},
{"text", 0, 0, 'a'},
{"to-file", 1, 0, TO_FILE_OPTION},
{"unchanged-group-format", 1, 0, UNCHANGED_GROUP_FORMAT_OPTION},
{"unchanged-line-format", 1, 0, UNCHANGED_LINE_FORMAT_OPTION},
{"unidirectional-new-file", 0, 0, 'P'},
{"unified", 2, 0, 'U'},
{"version", 0, 0, 'v'},
{"width", 1, 0, 'W'},
{0, 0, 0, 0}
};

```

/* Return a string containing the command options with which diff was invoked.

Spaces appear between what were separate ARGV-elements.

There is a space at the beginning but none at the end.

If there were no options, the result is an empty string.

Arguments: OPTIONVEC, a vector containing separate ARGV-elements, and COUNT, the length of that vector. */

```

static char *
option_list (char **optionvec, int count)
{
    int i;
    size_t size = 1;
    char *result;
    char *p;

```

```

for (i = 0; i < count; i++)
    size += 1 + shell_quote_length (optionvec[i]);

p = result = xmalloc (size);

for (i = 0; i < count; i++)
    {
        *p++ = ' ';
        p = shell_quote_copy (p, optionvec[i]);
    }

*p = '\0';
return result;
}

/* Return an option value suitable for add_exclude. */

static int
exclude_options (void)
{
    return EXCLUDE_WILDCARDS | (ignore_file_name_case ? FNM_CASEFOLD : 0);
}

int
main (int argc, char **argv)
{
    int exit_status = EXIT_SUCCESS;
    int c;
    int i;
    int prev = -1;
    int ocontext = -1;
    bool explicit_context = false;
    size_t width = 0;
    bool show_c_function = false;
    char const *from_file = NULL;
    char const *to_file = NULL;
    uintmax_t numval;
    char *numend;

    /* Do our initializations. */
    exit_failure = EXIT_TROUBLE;
    initialize_main (&argc, &argv);
    set_program_name (argv[0]);
    setlocale (LC_ALL, "");
    bindtextdomain (PACKAGE, LOCALEDIR);
    textdomain (PACKAGE);
    c_stack_action (0);

```



```
function_regexp_list.buf = &function_regexp;
ignore_regexp_list.buf = &ignore_regexp;
re_set_syntax (RE_SYNTAX_GREP | RE_NO_POSIX_BACKTRACKING);
excluded = new_exclude ();
```

```
/* Decode the options. */
```

```
while ((c = getopt_long (argc, argv, shortopts, longopts, NULL)) != -1)
```

```
{
    switch (c)
    {
    case 0:
        break;

    case '0':
    case '1':
    case '2':
    case '3':
    case '4':
    case '5':
    case '6':
    case '7':
    case '8':
    case '9':
        if (! ISDIGIT (prev))
            ocontext = c - '0';
        else if (LIN_MAX / 10 < ocontext
            || ((ocontext = 10 * ocontext + c - '0') < 0))
            ocontext = LIN_MAX;
        break;

    case 'a':
        text = true;
        break;

    case 'b':
        if (ignore_white_space < IGNORE_SPACE_CHANGE)
            ignore_white_space = IGNORE_SPACE_CHANGE;
        break;

    case 'Z':
        if (ignore_white_space < IGNORE_SPACE_CHANGE)
            ignore_white_space |= IGNORE_TRAILING_SPACE;
        break;

    case 'B':
        ignore_blank_lines = true;
        break;
```

```

case 'C':
case 'U':
    {
        if (optarg)
            {
                numval = strtoumax (optarg, &numend, 10);
                if (*numend)
                    try_help ("invalid context length '%s'", optarg);
                if (LIN_MAX < numval)
                    numval = LIN_MAX;
            }
        else
            numval = 3;

        specify_style (c == 'U' ? OUTPUT_UNIFIED : OUTPUT_CONTEXT);
        if (context < numval)
            context = numval;
        explicit_context = true;
    }
    break;

case 'c':
    specify_style (OUTPUT_CONTEXT);
    if (context < 3)
        context = 3;
    break;

case 'd':
    minimal = true;
    break;

case 'D':
    specify_style (OUTPUT_IFDEF);
    {
        static char const C_ifdef_group_formats[] =
            "%c%#ifndef %s\n%>#endif /* ! %s *\n%c#ifndef %s\n%>#endif /* %s *\n%c#ifndef %s\n%<#else
/* %s *\n%>#endif /* %s *\n";
        char *b = xmalloc (sizeof C_ifdef_group_formats
            + 7 * strlen (optarg) - 14 /* 7*"%" */
            - 8 /* 5*"%" + 3*"%" */);
        sprintf (b, C_ifdef_group_formats,
            0,
            optarg, optarg, 0,
            optarg, optarg, 0,
            optarg, optarg, optarg);
        for (i = 0; i < sizeof group_format / sizeof group_format[0]; i++)
            {

```

```

specify_value (&group_format[i], b, "-D");
b += strlen (b) + 1;
    }
}
break;

case 'e':
specify_style (OUTPUT_ED);
break;

case 'E':
if (ignore_white_space < IGNORE_SPACE_CHANGE)
    ignore_white_space |= IGNORE_TAB_EXPANSION;
break;

case 'f':
specify_style (OUTPUT_FORWARD_ED);
break;

case 'F':
add_regexp (&function_regexp_list, optarg);
break;

case 'h':
/* Split the files into chunks for faster processing.
   Usually does not change the result.

   This currently has no effect. */
break;

case 'H':
speed_large_files = true;
break;

case 'i':
ignore_case = true;
break;

case 'I':
add_regexp (&ignore_regexp_list, optarg);
break;

case 'l':
if (!pr_program[0])
    try_help ("pagination not supported on this host", NULL);
paginate = true;
#ifdef SIGCHLD
/* Pagination requires forking and waiting, and

```

```
    System V fork+wait does not work if SIGCHLD is ignored. */
    signal (SIGCHLD, SIG_DFL);
#endif
    break;

case 'L':
    if (!file_label[0])
        file_label[0] = optarg;
    else if (!file_label[1])
        file_label[1] = optarg;
    else
        fatal ("too many file label options");
    break;

case 'n':
    specify_style (OUTPUT_RCS);
    break;

case 'N':
    new_file = true;
    break;

case 'p':
    show_c_function = true;
    add_regexp (&function_regexp_list, "^[:alpha:]+$");
    break;

case 'P':
    unidirectional_new_file = true;
    break;

case 'q':
    brief = true;
    break;

case 'r':
    recursive = true;
    break;

case 's':
    report_identical_files = true;
    break;

case 'S':
    specify_value (&starting_file, optarg, "-S");
    break;

case 't':
```

```

expand_tabs = true;
break;

case 'T':
initial_tab = true;
break;

case 'u':
specify_style (OUTPUT_UNIFIED);
if (context < 3)
context = 3;
break;

case 'v':
version_etc (stdout, PROGRAM_NAME, PACKAGE_NAME, Version,
AUTHORS, (char *) NULL);
check_stdout ();
return EXIT_SUCCESS;

case 'w':
ignore_white_space = IGNORE_ALL_SPACE;
break;

case 'x':
add_exclude (excluded, optarg, exclude_options ());
break;

case 'X':
if (add_exclude_file (add_exclude, excluded, optarg,
exclude_options (), '\n'))
pfatal_with_name (optarg);
break;

case 'y':
specify_style (OUTPUT_SDIFF);
break;

case 'W':
numval = strtoumax (optarg, &numend, 10);
if (! (0 < numval && numval <= SIZE_MAX) || *numend)
try_help ("invalid width '%s'", optarg);
if (width != numval)
{
if (width)
fatal ("conflicting width options");
width = numval;
}
break;

```

```

case BINARY_OPTION:
#if O_BINARY
    binary = true;
    if (! isatty (STDOUT_FILENO))
        set_binary_mode (STDOUT_FILENO, O_BINARY);
#endif
    break;

case FROM_FILE_OPTION:
    specify_value (&from_file, optarg, "--from-file");
    break;

case HELP_OPTION:
    usage ();
    check_stdout ();
    return EXIT_SUCCESS;

case HORIZON_LINES_OPTION:
    numval = strtoumax (optarg, &numend, 10);
    if (*numend)
        try_help ("invalid horizon length '%s'", optarg);
    horizon_lines = MAX (horizon_lines, MIN (numval, LIN_MAX));
    break;

case IGNORE_FILE_NAME_CASE_OPTION:
    ignore_file_name_case = true;
    break;

case INHIBIT_HUNK_MERGE_OPTION:
    /* This option is obsolete, but accept it for backward
       compatibility. */
    break;

case LEFT_COLUMN_OPTION:
    left_column = true;
    break;

case LINE_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
        specify_value (&line_format[i], optarg, "--line-format");
    break;

case NO_DEREFERENCE_OPTION:
    no_dereference_symlinks = true;
    break;

```

```

case NO_IGNORE_FILE_NAME_CASE_OPTION:
    ignore_file_name_case = false;
    break;

case NORMAL_OPTION:
    specify_style (OUTPUT_NORMAL);
    break;

case SDIFF_MERGE_ASSIST_OPTION:
    specify_style (OUTPUT_SDIFF);
    sdiff_merge_assist = true;
    break;

case STRIP_TRAILING_CR_OPTION:
    strip_trailing_cr = true;
    break;

case SUPPRESS_BLANK_EMPTY_OPTION:
    suppress_blank_empty = true;
    break;

case SUPPRESS_COMMON_LINES_OPTION:
    suppress_common_lines = true;
    break;

case TABSIZE_OPTION:
    numval = strtoumax (optarg, &numend, 10);
    if (! (0 < numval && numval <= SIZE_MAX) || *numend)
        try_help ("invalid tabsize '%s'", optarg);
    if (tabsize != numval)
    {
        if (tabsize)
            fatal ("conflicting tabsize options");
        tabsize = numval;
    }
    break;

case TO_FILE_OPTION:
    specify_value (&to_file, optarg, "--to-file");
    break;

case UNCHANGED_LINE_FORMAT_OPTION:
case OLD_LINE_FORMAT_OPTION:
case NEW_LINE_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    c -= UNCHANGED_LINE_FORMAT_OPTION;
    specify_value (&line_format[c], optarg, line_format_option[c]);
    break;

```

```

case UNCHANGED_GROUP_FORMAT_OPTION:
case OLD_GROUP_FORMAT_OPTION:
case NEW_GROUP_FORMAT_OPTION:
case CHANGED_GROUP_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    c -= UNCHANGED_GROUP_FORMAT_OPTION;
    specify_value (&group_format[c], optarg, group_format_option[c]);
    break;

default:
    try_help (NULL, NULL);
}
    prev = c;
}

if (output_style == OUTPUT_UNSPECIFIED)
{
    if (show_c_function)
    {
        specify_style (OUTPUT_CONTEXT);
        if (ocontext < 0)
            context = 3;
    }
    else
        specify_style (OUTPUT_NORMAL);
}

if (output_style != OUTPUT_CONTEXT || hard_locale (LC_TIME))
{
    #if (defined STAT_TIMESPEC || defined STAT_TIMESPEC_NS \
        || defined HAVE_STRUCT_STAT_ST_SPARE1)
        time_format = "%Y-%m-%d %H:%M:%S.%N %z";
    #else
        time_format = "%Y-%m-%d %H:%M:%S %z";
    #endif
}
else
{
    /* See POSIX 1003.1-2001 for this format. */
    time_format = "%a %b %e %T %Y";
}

if (0 <= ocontext
    && (output_style == OUTPUT_CONTEXT
        || output_style == OUTPUT_UNIFIED)
    && (context < ocontext
        || (ocontext < context && !explicit_context)))

```



```

context = ocontext;

if (! tabsize)
    tabsize = 8;
if (! width)
    width = 130;

{
    /* Maximize first the half line width, and then the gutter width,
       according to the following constraints:

1. Two half lines plus a gutter must fit in a line.
2. If the half line width is nonzero:
    a. The gutter width is at least GUTTER_WIDTH_MINIMUM.
    b. If tabs are not expanded to spaces,
       a half line plus a gutter is an integral number of tabs,
       so that tabs in the right column line up. */

    intmax_t t = expand_tabs ? 1 : tabsize;
    intmax_t w = width;
    intmax_t off = (w + t + GUTTER_WIDTH_MINIMUM) / (2 * t) * t;
    sdiff_half_width = MAX (0, MIN (off - GUTTER_WIDTH_MINIMUM, w - off)),
    sdiff_column2_offset = sdiff_half_width ? off : w;
}

/* Make the horizon at least as large as the context, so that
   shift_boundaries has more freedom to shift the first and last hunks. */
if (horizon_lines < context)
    horizon_lines = context;

summarize_regexp_list (&function_regexp_list);
summarize_regexp_list (&ignore_regexp_list);

if (output_style == OUTPUT_IFDEF)
{
    for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
if (!line_format[i])
    line_format[i] = "%\n";
    if (!group_format[OLD])
group_format[OLD]
= group_format[CHANGED] ? group_format[CHANGED] : "%<";
    if (!group_format[NEW])
group_format[NEW]
= group_format[CHANGED] ? group_format[CHANGED] : "%>";
    if (!group_format[UNCHANGED])
group_format[UNCHANGED] = "%=";
    if (!group_format[CHANGED])
group_format[CHANGED] = concat (group_format[OLD],

```

```

    group_format[NEW], "");
}

no_diff_means_no_output =
(output_style == OUTPUT_IFDEF ?
 (!*group_format[UNCHANGED]
  || (STREQ (group_format[UNCHANGED], "%=")
   && !*line_format[UNCHANGED]))
 : (output_style != OUTPUT_SDIFF) | suppress_common_lines);

files_can_be_treated_as_binary =
(brief & binary
 & ~ (ignore_blank_lines | ignore_case | strip_trailing_cr
 | (ignore_regexp_list.regexprs || ignore_white_space)));

switch_string = option_list (argv + 1, optind - 1);

if (from_file)
{
    if (to_file)
fatal ("--from-file and --to-file both specified");
    else
for (; optind < argc; optind++)
{
    int status = compare_files (NULL, from_file, argv[optind]);
    if (exit_status < status)
        exit_status = status;
}
}
else
{
    if (to_file)
for (; optind < argc; optind++)
{
    int status = compare_files (NULL, argv[optind], to_file);
    if (exit_status < status)
        exit_status = status;
}
    else
{
    if (argc - optind != 2)
    {
        if (argc - optind < 2)
try_help ("missing operand after '%s'", argv[argc - 1]);
        else
try_help ("extra operand '%s'", argv[optind + 2]);
    }
}
}

```

```

    exit_status = compare_files (NULL, argv[optind], argv[optind + 1]);
}
}

/* Print any messages that were saved up for last. */
print_message_queue ();

check_stdout ();
exit (exit_status);
return exit_status;
}

/* Append to REGLIST the regexp PATTERN. */

static void
add_regexp (struct regexp_list *reglist, char const *pattern)
{
    size_t patlen = strlen (pattern);
    char const *m = re_compile_pattern (pattern, patlen, reglist->buf);

    if (m != 0)
        error (0, 0, "%s: %s", pattern, m);
    else
        {
            char *regexps = reglist->regexps;
            size_t len = reglist->len;
            bool multiple_regexps = reglist->multiple_regexps = regexps != 0;
            size_t newlen = reglist->len = len + 2 * multiple_regexps + patlen;
            size_t size = reglist->size;

            if (size <= newlen)
            {
                if (!size)
                    size = 1;

                do size *= 2;
                while (size <= newlen);

                reglist->size = size;
                reglist->regexps = regexps = xrealloc (regexps, size);
            }
            if (multiple_regexps)
            {
                {
                    regexps[len++] = '\\';
                    regexps[len++] = '|';
                }
                memcpy (regexps + len, pattern, patlen + 1);
            }
        }
}

```

```

}

/* Ensure that REGLIST represents the disjunction of its regexps.
   This is done here, rather than earlier, to avoid O(N^2) behavior. */

static void
summarize_regexp_list (struct regexp_list *reglist)
{
  if (reglist->regexps)
    {
      /* At least one regexp was specified. Allocate a fastmap for it. */
      reglist->buf->fastmap = xmalloc (1 << CHAR_BIT);
      if (reglist->multiple_regexps)
        {
          /* Compile the disjunction of the regexps.
             (If just one regexp was specified, it is already compiled.) */
          char const *m = re_compile_pattern (reglist->regexps, reglist->len,
                                             reglist->buf);
          if (m)
            error (EXIT_TROUBLE, 0, "%s: %s", reglist->regexps, m);
        }
    }
}

static void
try_help (char const *reason_msgid, char const *operand)
{
  if (reason_msgid)
    error (0, 0, _(reason_msgid), operand);
  error (EXIT_TROUBLE, 0, _("Try '%s --help' for more information."),
        program_name);
  abort ();
}

static void
check_stdout (void)
{
  if (ferror (stdout))
    fatal ("write failed");
  else if (fclose (stdout) != 0)
    pfatal_with_name (_("standard output"));
}

static char const * const option_help_msgid[] = {
  N_(" --normal          output a normal diff (the default)"),
  N_(" -q, --brief       report only when files differ"),
  N_(" -s, --report-identical-files report when two files are the same"),
  N_(" -c, -C NUM, --context[=NUM] output NUM (default 3) lines of copied context"),
}

```

```

N_("-u, -U NUM, --unified[=NUM]  output NUM (default 3) lines of unified context"),
N_("-e, --ed                    output an ed script"),
N_("-n, --rcs                    output an RCS format diff"),
N_("-y, --side-by-side          output in two columns"),
N_("-W, --width=NUM              output at most NUM (default 130) print columns"),
N_("  --left-column              output only the left column of common lines"),
N_("  --suppress-common-lines    do not output common lines"),
"",
N_("-p, --show-c-function        show which C function each change is in"),
N_("-F, --show-function-line=RE  show the most recent line matching RE"),
N_("  --label LABEL              use LABEL instead of file name\n"
"                               (can be repeated)"),
"",
N_("-t, --expand-tabs            expand tabs to spaces in output"),
N_("-T, --initial-tab            make tabs line up by prepending a tab"),
N_("  --tabsize=NUM               tab stops every NUM (default 8) print columns"),
N_("  --suppress-blank-empty      suppress space or tab before empty output lines"),
N_("-l, --paginate               pass output through 'pr' to paginate it"),
"",
N_("-r, --recursive              recursively compare any subdirectories found"),
N_("  --no-dereference            don't follow symbolic links"),
N_("-N, --new-file                treat absent files as empty"),
N_("  --unidirectional-new-file  treat absent first files as empty"),
N_("  --ignore-file-name-case     ignore case when comparing file names"),
N_("  --no-ignore-file-name-case  consider case when comparing file names"),
N_("-x, --exclude=PAT            exclude files that match PAT"),
N_("-X, --exclude-from=FILE       exclude files that match any pattern in FILE"),
N_("-S, --starting-file=FILE      start with FILE when comparing directories"),
N_("  --from-file=FILE1           compare FILE1 to all operands;\n"
"                               FILE1 can be a directory"),
N_("  --to-file=FILE2             compare all operands to FILE2;\n"
"                               FILE2 can be a directory"),
"",
N_("-i, --ignore-case             ignore case differences in file contents"),
N_("-E, --ignore-tab-expansion     ignore changes due to tab expansion"),
N_("-Z, --ignore-trailing-space    ignore white space at line end"),
N_("-b, --ignore-space-change      ignore changes in the amount of white space"),
N_("-w, --ignore-all-space        ignore all white space"),
N_("-B, --ignore-blank-lines       ignore changes where lines are all blank"),
N_("-I, --ignore-matching-lines=RE ignore changes where all lines match RE"),
"",
N_("-a, --text                    treat all files as text"),
N_("  --strip-trailing-cr          strip trailing carriage return on input"),
#if O_BINARY
N_("  --binary                    read and write data in binary mode"),
#endif
"",
N_("-D, --ifdef=NAME              output merged file with '#ifdef NAME' diffs"),

```

```

N_(" --GTYPE-group-format=GFMT  format GTYPE input groups with GFMT"),
N_(" --line-format=LFMT      format all input lines with LFMT"),
N_(" --LTYPE-line-format=LFMT  format LTYPE input lines with LFMT"),
N_(" These format options provide fine-grained control over the output\n"
  "  of diff, generalizing -D/--ifdef."),
N_(" LTYPE is 'old', 'new', or 'unchanged'.  GTYPE is LTYPE or 'changed.'"),
N_(" GFMT (only) may contain:\n\
%< lines from FILE1\n\
%> lines from FILE2\n\
%= lines common to FILE1 and FILE2\n\
%[-][[WIDTH]][.[PREC]]{doxX}LETTER  printf-style spec for LETTER\n\
LETTERS are as follows for new group, lower case for old group:\n\
  F first line number\n\
  L last line number\n\
  N number of lines = L-F+1\n\
  E F-1\n\
  M L+1\n\
%(A=B?T:E) if A equals B then T else E"),
N_(" LFMT (only) may contain:\n\
%L contents of line\n\
%l contents of line, excluding any trailing newline\n\
%[-][[WIDTH]][.[PREC]]n  printf-style spec for input line number"),
N_(" Both GFMT and LFMT may contain:\n\
%% %\n\
%c'C' the single character C\n\
%c\\'OOO' the character with octal code OOO\n\
C  the character C (other characters represent themselves)",
"",
N_("-d, --minimal      try hard to find a smaller set of changes"),
N_("--horizon-lines=NUM keep NUM lines of the common prefix and suffix"),
N_("--speed-large-files assume large files and many scattered small changes"),
"",
N_("--help          display this help and exit"),
N_("-v, --version     output version information and exit"),
"",
N_("FILES are 'FILE1 FILE2' or 'DIR1 DIR2' or 'DIR FILE...' or 'FILE... DIR.'"),
N_("If --from-file or --to-file is given, there are no restrictions on FILE(s)."),
N_("If a FILE is '-', read standard input."),
N_("Exit status is 0 if inputs are the same, 1 if different, 2 if trouble."),
0
};

```

```

static void
usage (void)
{
char const * const *p;

printf (_("Usage: %s [OPTION]... FILES\n"), program_name);

```

```

printf ("%s\n\n", _("Compare FILES line by line.));

fputs (_("\
Mandatory arguments to long options are mandatory for short options too.\n\
"), stdout);

for (p = option_help_msgid; *p; p++)
{
    if (!**p)
    putchar ('\n');
    else
    {
        char const *msg = _(*p);
        char const *nl;
        while ((nl = strchr (msg, '\n')))
        {
            int msglen = nl + 1 - msg;
            printf (" %.*s", msglen, msg);
            msg = nl + 1;
        }

        printf (" %s\n" + 2 * (*msg != ' ' && *msg != '-'), msg);
    }
}
emit_bug_reporting_address ();
}

/* Set VAR to VALUE, reporting an OPTION error if this is a
conflict. */
static void
specify_value (char const **var, char const *value, char const *option)
{
    if (*var && !STREQ (*var, value))
    {
        error (0, 0, _("conflicting %s option value '%s'"), option, value);
        try_help (NULL, NULL);
    }
    *var = value;
}

/* Set the output style to STYLE, diagnosing conflicts. */
static void
specify_style (enum output_style style)
{
    if (output_style != style)
    {
        if (output_style != OUTPUT_UNSPECIFIED)
            try_help ("conflicting output style options", NULL);
    }
}

```

```

    output_style = style;
}
}

/* Set the last-modified time of *ST to be the current time. */

static void
set_mtime_to_now (struct stat *st)
{
#ifdef STAT_TIMESPEC
    gettimeofday (&STAT_TIMESPEC (st, st_mtim));
#else
    struct timespec t;
    gettimeofday (&t);
    st->st_mtime = t.tv_sec;
# if defined STAT_TIMESPEC_NS
    STAT_TIMESPEC_NS (st, st_mtim) = t.tv_nsec;
# elif defined HAVE_STRUCT_STAT_ST_SPARE1
    st->st_spare1 = t.tv_nsec / 1000;
# endif
#endif
}

/* Compare two files (or dirs) with parent comparison PARENT
and names NAME0 and NAME1.
(If PARENT is null, then the first name is just NAME0, etc.)
This is self-contained; it opens the files and closes them.

Value is EXIT_SUCCESS if files are the same, EXIT_FAILURE if
different, EXIT_TROUBLE if there is a problem opening them. */

static int
compare_files (struct comparison const *parent,
               char const *name0,
               char const *name1)
{
    struct comparison cmp;
#define DIR_P(f) (S_ISDIR (cmp.file[f].stat.st_mode) != 0)
    register int f;
    int status = EXIT_SUCCESS;
    bool same_files;
    char *free0;
    char *free1;

    /* If this is directory comparison, perhaps we have a file
       that exists only in one of the directories.
       If so, just print a message to that effect. */

```



```

if (!(name0 && name1)
|| (unidirectional_new_file && name1)
|| new_file))
{
char const *name = name0 ? name0 : name1;
char const *dir = parent->file[!name0].name;

/* See POSIX 1003.1-2001 for this format. */
message ("Only in %s: %s\n", dir, name);

/* Return EXIT_FAILURE so that diff_dirs will return
EXIT_FAILURE ("some files differ"). */
return EXIT_FAILURE;
}

memset (cmp.file, 0, sizeof cmp.file);
cmp.parent = parent;

/* cmp.file[f].desc markers */
#define NONEXISTENT (-1) /* nonexistent file */
#define UNOPENED (-2) /* unopened file (e.g. directory) */
#define ERRNO_ENCODE(errno) (-3 - (errno)) /* encoded errno value */

#define ERRNO_DECODE(desc) (-3 - (desc)) /* inverse of ERRNO_ENCODE */

cmp.file[0].desc = name0 ? UNOPENED : NONEXISTENT;
cmp.file[1].desc = name1 ? UNOPENED : NONEXISTENT;

/* Now record the full name of each file, including nonexistent ones. */

if (!name0)
name0 = name1;
if (!name1)
name1 = name0;

if (!parent)
{
free0 = NULL;
free1 = NULL;
cmp.file[0].name = name0;
cmp.file[1].name = name1;
}
else
{
cmp.file[0].name = free0
= file_name_concat (parent->file[0].name, name0, NULL);
cmp.file[1].name = free1
= file_name_concat (parent->file[1].name, name1, NULL);
}

```

```

}

/* Stat the files. */

for (f = 0; f < 2; f++)
{
    if (cmp.file[f].desc != NONEXISTENT)
    {
        if (f && file_name_cmp (cmp.file[f].name, cmp.file[0].name) == 0)
        {
            cmp.file[f].desc = cmp.file[0].desc;
            cmp.file[f].stat = cmp.file[0].stat;
        }
        else if (STREQ (cmp.file[f].name, "-"))
        {
            cmp.file[f].desc = STDIN_FILENO;
            if (binary && ! isatty (STDIN_FILENO))
                set_binary_mode (STDIN_FILENO, O_BINARY);
            if (fstat (STDIN_FILENO, &cmp.file[f].stat) != 0)
                cmp.file[f].desc = ERRNO_ENCODE (errno);
            else
            {
                if (S_ISREG (cmp.file[f].stat.st_mode))
                {
                    off_t pos = lseek (STDIN_FILENO, 0, SEEK_CUR);
                    if (pos < 0)
                        cmp.file[f].desc = ERRNO_ENCODE (errno);
                    else
                        cmp.file[f].stat.st_size =
                            MAX (0, cmp.file[f].stat.st_size - pos);
                }
            }

            /* POSIX 1003.1-2001 requires current time for
            stdin. */
            set_mtime_to_now (&cmp.file[f].stat);
        }
    }
    else if ((no_dereference_symlinks
        ? lstat (cmp.file[f].name, &cmp.file[f].stat)
        : stat (cmp.file[f].name, &cmp.file[f].stat)
        != 0)
        cmp.file[f].desc = ERRNO_ENCODE (errno);
    }
}

/* Mark files as nonexistent as needed for -N and -P, if they are
inaccessible empty regular files (the kind of files that 'patch'
creates to indicate nonexistent backups), or if they are

```

```

top-level files that do not exist but their counterparts do
exist. */
for (f = 0; f < 2; f++)
    if ((new_file || (f == 0 && unidirectional_new_file))
&& (cmp.file[f].desc == UNOPENED
    ? (S_ISREG (cmp.file[f].stat.st_mode)
        && ! (cmp.file[f].stat.st_mode & (S_IRWXU | S_IRWXG | S_IRWXO))
        && cmp.file[f].stat.st_size == 0)
    : ((cmp.file[f].desc == ERRNO_ENCODE (ENOENT)
|| cmp.file[f].desc == ERRNO_ENCODE (EBADF))
        && ! parent
        && (cmp.file[1 - f].desc == UNOPENED
|| cmp.file[1 - f].desc == STDIN_FILENO))))
        cmp.file[f].desc = NONEXISTENT;

for (f = 0; f < 2; f++)
    if (cmp.file[f].desc == NONEXISTENT)
        {
    memset (&cmp.file[f].stat, 0, sizeof cmp.file[f].stat);
    cmp.file[f].stat.st_mode = cmp.file[1 - f].stat.st_mode;
        }

for (f = 0; f < 2; f++)
    {
        int e = ERRNO_DECODE (cmp.file[f].desc);
        if (0 <= e)
            {
                errno = e;
                perror_with_name (cmp.file[f].name);
                status = EXIT_TROUBLE;
            }
    }

if (status == EXIT_SUCCESS && ! parent && DIR_P (0) != DIR_P (1))
    {
        /* If one is a directory, and it was specified in the command line,
use the file in that dir with the other file's basename. */

        int fnm_arg = DIR_P (0);
        int dir_arg = 1 - fnm_arg;
        char const *fnm = cmp.file[fnm_arg].name;
        char const *dir = cmp.file[dir_arg].name;
        char const *filename = cmp.file[dir_arg].name = free0
= find_dir_file_pathname (dir, last_component (fnm));

        if (STREQ (fnm, "-"))
            fatal ("cannot compare '-' to a directory");
    }

```

```

    if ((no_dereference_symlinks
    ? lstat (filename, &cmp.file[dir_arg].stat)
    : stat (filename, &cmp.file[dir_arg].stat))
    != 0)
    {
        perror_with_name (filename);
        status = EXIT_TROUBLE;
    }
}

if (status != EXIT_SUCCESS)
{
    /* One of the files should exist but does not. */
}
else if (cmp.file[0].desc == NONEXISTENT
    && cmp.file[1].desc == NONEXISTENT)
{
    /* Neither file "exists", so there's nothing to compare. */
}
else if ((same_files
    = (cmp.file[0].desc != NONEXISTENT
    && cmp.file[1].desc != NONEXISTENT
    && 0 < same_file (&cmp.file[0].stat, &cmp.file[1].stat)
    && same_file_attributes (&cmp.file[0].stat,
    &cmp.file[1].stat)))
    && no_diff_means_no_output)
{
    /* The two named files are actually the same physical file.
    We know they are identical without actually reading them. */
}
else if (DIR_P (0) & DIR_P (1))
{
    if (output_style == OUTPUT_IFDEF)
fatal ("-D option not supported with directories");

    /* If both are directories, compare the files in them. */

    if (parent && !recursive)
    {
        /* But don't compare dir contents one level down
        unless -r was specified.
        See POSIX 1003.1-2001 for this format. */
        message ("Common subdirectories: %s and %s\n",
            cmp.file[0].name, cmp.file[1].name);
    }
    else
status = diff_dirs (&cmp, compare_files);
}

```

```

else if ((DIR_P (0) | DIR_P (1))
|| (parent
    && !((S_ISREG (cmp.file[0].stat.st_mode)
|| S_ISLNK (cmp.file[0].stat.st_mode)
&& (S_ISREG (cmp.file[1].stat.st_mode)
|| S_ISLNK (cmp.file[1].stat.st_mode))))))
{
    if (cmp.file[0].desc == NONEXISTENT || cmp.file[1].desc == NONEXISTENT)
{
    /* We have a subdirectory that exists only in one directory. */

if ((DIR_P (0) | DIR_P (1))
    && recursive
    && (new_file
|| (unidirectional_new_file
    && cmp.file[0].desc == NONEXISTENT)))
    status = diff_dirs (&cmp, compare_files);
else
{
    char const *dir;

    /* PARENT must be non-NULL here. */
    assert (parent);
    dir = parent->file[cmp.file[0].desc == NONEXISTENT].name;

    /* See POSIX 1003.1-2001 for this format. */
    message ("Only in %s: %s\n", dir, name0);

    status = EXIT_FAILURE;
}
}
else
{
    /* We have two files that are not to be compared. */

    /* See POSIX 1003.1-2001 for this format. */
    message5 ("File %s is a %s while file %s is a %s\n",
        file_label[0] ? file_label[0] : cmp.file[0].name,
        file_type (&cmp.file[0].stat),
        file_label[1] ? file_label[1] : cmp.file[1].name,
        file_type (&cmp.file[1].stat));

    /* This is a difference. */
    status = EXIT_FAILURE;
}
}
else if (S_ISLNK (cmp.file[0].stat.st_mode)
|| S_ISLNK (cmp.file[1].stat.st_mode))

```

```

{
/* We get here only if we use lstat(), not stat(). */
assert (no_dereference_symlinks);

if (S_ISLNK (cmp.file[0].stat.st_mode)
&& S_ISLNK (cmp.file[1].stat.st_mode))
{
/* Compare the values of the symbolic links. */
char *link_value[2] = { NULL, NULL };

for (f = 0; f < 2; f++)
{
link_value[f] = xreadlink (cmp.file[f].name);
if (link_value[f] == NULL)
{
perror_with_name (cmp.file[f].name);
status = EXIT_TROUBLE;
break;
}
}
if (status == EXIT_SUCCESS)
{
if ( ! STREQ (link_value[0], link_value[1]))
{
message ("Symbolic links %s and %s differ\n",
cmp.file[0].name, cmp.file[1].name);
/* This is a difference. */
status = EXIT_FAILURE;
}
}
for (f = 0; f < 2; f++)
free (link_value[f]);
}
else
{
/* We have two files that are not to be compared, because
one of them is a symbolic link and the other one is not. */

message5 ("File %s is a %s while file %s is a %s\n",
file_label[0] ? file_label[0] : cmp.file[0].name,
file_type (&cmp.file[0].stat),
file_label[1] ? file_label[1] : cmp.file[1].name,
file_type (&cmp.file[1].stat));

/* This is a difference. */
status = EXIT_FAILURE;
}
}
}

```

```

else if (files_can_be_treated_as_binary
        && S_ISREG (cmp.file[0].stat.st_mode)
        && S_ISREG (cmp.file[1].stat.st_mode)
        && cmp.file[0].stat.st_size != cmp.file[1].stat.st_size)
{
    message ("Files %s and %s differ\n",
            file_label[0] ? file_label[0] : cmp.file[0].name,
            file_label[1] ? file_label[1] : cmp.file[1].name);
    status = EXIT_FAILURE;
}
else
{
    /* Both exist and neither is a directory. */

    /* Open the files and record their descriptors. */

    int oflags = O_RDONLY | (binary ? O_BINARY : 0);

    if (cmp.file[0].desc == UNOPENED)
if ((cmp.file[0].desc = open (cmp.file[0].name, oflags, 0)) < 0)
    {
        perror_with_name (cmp.file[0].name);
        status = EXIT_TROUBLE;
    }
    if (cmp.file[1].desc == UNOPENED)
    {
if (same_files)
        cmp.file[1].desc = cmp.file[0].desc;
else if ((cmp.file[1].desc = open (cmp.file[1].name, oflags, 0)) < 0)
        {
            perror_with_name (cmp.file[1].name);
            status = EXIT_TROUBLE;
        }
    }
}

    /* Compare the files, if no error was found. */

    if (status == EXIT_SUCCESS)
status = diff_2_files (&cmp);

    /* Close the file descriptors. */

    if (0 <= cmp.file[0].desc && close (cmp.file[0].desc) != 0)
    {
        perror_with_name (cmp.file[0].name);
        status = EXIT_TROUBLE;
    }
    if (0 <= cmp.file[1].desc && cmp.file[0].desc != cmp.file[1].desc

```

```

    && close (cmp.file[1].desc) != 0)
{
    perror_with_name (cmp.file[1].name);
    status = EXIT_TROUBLE;
}
}

/* Now the comparison has been done, if no error prevented it,
   and STATUS is the value this function will return. */

if (status == EXIT_SUCCESS)
{
    if (report_identical_files && !DIR_P (0))
message ("Files %s and %s are identical\n",
    file_label[0] ? file_label[0] : cmp.file[0].name,
    file_label[1] ? file_label[1] : cmp.file[1].name);
}
else
{
    /* Flush stdout so that the user sees differences immediately.
       This can hurt performance, unfortunately. */
    if (fflush (stdout) != 0)
pfatal_with_name (_("standard output"));
}

free (free0);
free (free1);

return status;
}

```

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Version 3, 29 June 2007

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1.437 at 3.1.13-25.el7_9

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```
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```

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Version 2, June 1991

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<signature of Ty Coon>, 1 April 1990
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1.441 python-decorator 3.4.0 3.e17

1.441.1 Available under license :

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1.442 boost 1.53.0 28.e17

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1.443 postfix 2.10.1-9.e17

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1.445 ntp 4.2.6p5-29.el7.centos.2

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1. [1]Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
4. [4]Viraj Bais <vbais@mailman1.intel.com> and [5]Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
5. [6]Michael Barone <michael,barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
11. [12]Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
16. [17]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
19. [20]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
20. [21]Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
21. [22]Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
22. [23]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
23. [24]Mike Iglesias <iglesias@uci.edu> DEC Alpha port

24. [25]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
25. [26]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [28]<H.Lambermont@chello.nl> ntpsweep
27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> driver (>14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
30. [33]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
31. [34]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
32. [35]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
33. [36]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
34. [37]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
35. [38]Danny Mayer <mayer@ntp.org>Network I/O, Windows Port, Code Maintenance
36. [39]David L. Mills <mills@udel.edu> Version 4 foundation: clock discipline, authentication, precision kernel; clock drivers: Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics; audio clock drivers: CHU, WWV/H, IRIG
37. [40]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
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41. [44]Derek Mulcahy <derek@toybox.demon.co.uk> and [45]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
42. [46]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
43. [47]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
44. [48]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
45. [49]Wilfredo Snchez <wsanchez@apple.com> added support for NetInfo
46. [50]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
47. [51]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
48. [52]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
49. [53]Michael Shields <shields@tembel.org> USNO clock driver
50. [54]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
51. [55]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
52. [56]Kenneth Stone <ken@sdd.hp.com> HP-UX port

53. [57]Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast support
 54. [58]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
 55. [59]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
 56. [60]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD
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```
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1.447 hk2-utils 2.4.0-b31

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1.448 cracklib 2.9.0 11.e17

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^L

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<one line to give the library'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.

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!
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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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=
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Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

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-- Nathan

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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...
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Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

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From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
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> -----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
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> Subject: Re: [Cracklib-devel] cracklib license

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> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

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> 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
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> I am sympathetic. Guys, what do you reckon?

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> 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
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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

>> 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.

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umn.edu ([131.151.0.192]) by UMR-CMAIL1.umn.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.umn.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-ipv6.cc.umn.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 ESMTP id 191Gxtpf020623
for <nneul@umn.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 ESMTP 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 1IcOcX-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.umn.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@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
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
Lines: 21

>
> ----- Forwarded message -----
> From: Neulinger, Nathan <nneul@umn.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

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

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GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
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Re: [Cracklib-devel] cracklib license

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=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

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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...

>

> 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.

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umn.edu ([131.151.0.192]) by UMR-CMAIL1.umn.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.umn.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.umn.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 ESMTP id 191Gxtpr020623
for <nneul@umn.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 ESMTP 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 1IcOcX-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.umn.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@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
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
Lines: 21

>
> ----- Forwarded message -----
> From: Neulinger, Nathan <nneul@umn.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

1.449 compat-openldap 2.3.43 5.el7

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1.450 fontconfig 2.13.0 4.3.el7

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1.452 asm 5.0.4

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 */
 /**
 * Creates a new JSRInliner. <i>Subclasses must not use this constructor</i>. Instead, they must use the
 * { @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
 * version.
 *
 * @param mv
 * the <code>MethodVisitor</code> to send the resulting inlined
 * method code to (use <code>>null</code> for none).
 * @param access
 * the method's access flags (see { @link Opcodes}). This
 * parameter also indicates if the method is synthetic and/or
 * deprecated.
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see { @link Type}).
 * @param signature
 * the method's signature. May be <tt>>null</tt>.
 * @param exceptions
 * the internal names of the method's exception classes (see
 * { @link Type#getInternalName() getInternalName}). May be
 * <tt>>null</tt>.
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

Found in path(s):

* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/commons/JSRInlinerAdapter.java

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* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/TypePath.java

* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/TypeReference.java

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```
*/
/**
 * Creates a new {@link GeneratorAdapter}. Subclasses must not use this
 * constructor. Instead, they must use the
 * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
 * version.
 *
 * @param mv
 *         the method visitor to which this adapter delegates calls.
 * @param access
 *         the method's access flags (see {@link Opcodes}).
 * @param name
 *         the method's name.
 * @param desc
 *         the method's descriptor (see {@link Type Type}).
 * @throws IllegalStateException
 *         If a subclass calls this constructor.
 */
```

Found in path(s):

```
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-
jar/org/objectweb/asm/commons/GeneratorAdapter.java
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*/

/**

* Constructs a new {@link Textifier}. *Subclasses must not use this
* constructor*. Instead, they must use the {@link #Textifier(int)}
* version.

*

* @throws IllegalStateException

* If a subclass calls this constructor.

*/

Found in path(s):

* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/util/Textifier.java

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/**

* Constructs a new {@link ClassNode}. *Subclasses must not use this*

* constructor*.* Instead, they must use the {@link #ClassNode(int)}

* version.

*

* @throws IllegalStateException

* If a subclass calls this constructor.

*/

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* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/util/ASMifiable.java

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*/
/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 *
 * @param typeRef
 *     a reference to the annotated type. See {@link TypeReference}.
 * @param typePath
 *     the path to the annotated type argument, wildcard bound, array
 *     element type, or static inner type within 'typeRef'. May be
 *     <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 * @param start
 *     the first instructions corresponding to the continuous ranges
 *     that make the scope of this local variable (inclusive).
 * @param end
 *     the last instructions corresponding to the continuous ranges
 *     that make the scope of this local variable (exclusive). This
 *     array must have the same size as the 'start' array.
 * @param index
 *     the local variable's index in each range. This array must have
 *     the same size as the 'start' array.
 * @param desc
 *     the class descriptor of the annotation class.
 */

```

Found in path(s):

```

* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-
jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java

```

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* ASM XML Adapter

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* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-
jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-
jar/org/objectweb/asm/xml/SAXFieldAdapter.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/xml/Processor.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-
jar/org/objectweb/asm/xml/SAXCodeAdapter.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-
jar/org/objectweb/asm/xml/ASMContentHandler.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-
jar/org/objectweb/asm/xml/SAXClassAdapter.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-
jar/org/objectweb/asm/xml/SAXAdapter.java

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- * /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/optimizer/shrink.properties
- * /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/optimizer/shrink-writer.properties
- * /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/optimizer/shrink-signatures.properties
- * /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/optimizer/shrink-frames.properties
- * /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/optimizer/shrink-annotations.properties
- * /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/optimizer/shrink-resize.properties

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*/
/**

* Creates a new { @link AnalyzerAdapter }. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* { @link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor) }
* version.
*
* @param owner
* the owner's class name.
* @param access
* the method's access flags (see { @link Opcodes }).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see { @link Type Type }).
* @param mv
* the method visitor to which this adapter delegates calls. May
* be <tt>null</tt>.
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

Found in path(s):

* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-
jar/org/objectweb/asm/commons/AnalyzerAdapter.java

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* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/Edge.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/Context.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/AnnotationVisitor.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/ByteVector.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/tree/FrameNode.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/commons/RemappingClassAdapter.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/tree/AnnotationNode.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/tree/FieldNode.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/tree/InnerClassNode.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/Handler.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/tree/ParameterNode.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/util/ASMifier.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/tree/MethodInsnNode.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/MethodVisitor.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/ClassReader.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/MethodWriter.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/util/Printer.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/util/CheckClassAdapter.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/tree/LineNumberNode.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-

jar/org/objectweb/asm/tree/analysis/Subroutine.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-
jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-
jar/org/objectweb/asm/tree/analysis/BasicValue.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-
jar/org/objectweb/asm/tree/VarInsnNode.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-
jar/org/objectweb/asm/util/TraceMethodVisitor.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-
jar/org/objectweb/asm/tree/IntInsnNode.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-
jar/org/objectweb/asm/signature/SignatureWriter.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-
jar/org/objectweb/asm/tree/TypeAnnotationNode.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/FieldVisitor.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-
jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/tree/LabelNode.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-
jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/tree/InsnList.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-
jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-
jar/org/objectweb/asm/commons/Method.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-
jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-
jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/Attribute.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-
jar/org/objectweb/asm/optimizer/JarOptimizer.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-
jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/Handle.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-
jar/org/objectweb/asm/tree/JumpInsnNode.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-
jar/org/objectweb/asm/signature/SignatureReader.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-
jar/org/objectweb/asm/tree/analysis/SourceValue.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-
jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-
jar/org/objectweb/asm/commons/Remapper.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-
jar/org/objectweb/asm/commons/TryCatchBlockSorter.java

* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/tree/TypeInsnNode.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/optimizer/ConstantPool.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/tree/InsnNode.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/tree/analysis/Value.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/AnnotationWriter.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/commons/StaticInitMerger.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/util/TraceFieldVisitor.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/tree/LdcInsnNode.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/optimizer/Constant.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/Label.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/util/CheckFieldAdapter.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/Opcodes.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/tree/FieldInsnNode.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/commons/AdviceAdapter.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/Item.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/tree/TryCatchBlockNode.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/tree/analysis/Frame.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/commons/InstructionAdapter.java

* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/optimizer/MethodOptimizer.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/tree/LocalVariableNode.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/optimizer/Shrinker.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/Frame.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/util/CheckMethodAdapter.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/ClassVisitor.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/commons/SimpleRemapper.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/optimizer/NameMapping.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/ClassWriter.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/tree/analysis/SmallSet.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/Type.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/tree/MethodNode.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/tree/InsnNode.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/FieldWriter.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/util/TraceClassVisitor.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/signature/SignatureVisitor.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/optimizer/ClassOptimizer.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java

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

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Found in path(s):

* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/util/package.html

* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-

jar/org/objectweb/asm/tree/analysis/package.html

* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-

jar/org/objectweb/asm/signature/package.html

* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/package.html

* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-

jar/org/objectweb/asm/commons/package.html

* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/tree/package.html

1.453 qrencode 3.4.1 3.e17

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1.454 jcommon 1.0.0

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1.455 libglvnd 1.0.1 0.8.git5baa1e5.e17

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```
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  PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
  "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
<head>
  <link rel="stylesheet" type="text/css" href="styles.css" />
  <title>uthash: a hash table for C structures</title>
</head>
<body>

<div id="banner">

</div> <!-- banner -->

<div id="topnav">
<a href="http://troydhanson.github.com/uthash/">uthash home</a> >
BSD license
</div>

<hr />
<div id="mid">
  <div id="main">
<pre>
Copyright (c) 2005-2013, Troy D. Hanson http://troydhanson.github.com/uthash/
All rights reserved.
```

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```
</pre>
</div> <!-- mid -->
</div> <!-- main -->

<hr />
<div id="footer">
</div> <!-- footer -->

</body>

</html>
```

1.456 centos-indexhtml 7-9.el7.centos

1.457 libevent 2.1.12

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That's all there is to it!

1.462 jersey-common 2.22.1

1.463 firewallD 0.6.3-13.el7_9

1.463.1 Available under license :

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```
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```

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```


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```
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```

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```
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```

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

```
=====
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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-
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-->

<!-- 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: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>
```

```

</xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
</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">
        <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:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
      <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

```

<!--

- Local variables:

- mode: sgml

- End:

-->

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1.465 sg3-utils 1.37 19.e17

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10th April 2012

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1.466 procps 3.2.7

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Version 2, June 1991

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* GSS-API Programming Guide
* Part No: 816-1331-11
* Sun Microsystems, Inc. 4150 Network Circle Santa Clara, CA 95054 U.S.A.

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Network Working Group H. Krawczyk
Request for Comments: 2104 IBM
Category: Informational M. Bellare
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1.472 python-jsonpatch 1.2 4.e17

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1.473 jaxb-jxc 2.2.10-b140802.1033

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1.474 python-jinja 2.7.2 4.e17

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1.475 libmnl 1.0.3 7.e17

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```

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

That's all there is to it!

1.476 perl-http-daemon 6.01 8.e17

1.477 python-prettytable 0.7.2-7.ph4

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1.478 wayland 1.15.0 1.e17

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1.479 dejavu-fonts 2.33 6.e17

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1.480 libcap-ng 0.7.5 4.el7

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1.481 dyninst 9.3.1 3.e17

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1.482 openssl 1.0.2j

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  <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 name="isc.copyright.text">
  <xsl:text>
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```

```
</xsl:text>
</xsl:variable>
```

```
<xsl:variable name="isc.copyright">
```

```
<xsl:call-template name="isc.copyright.format">
  <xsl:with-param name="text">
<xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">
  <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:value-of select="holder"/>
  <xsl:text> &#10;</xsl:text>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
  </xsl:with-param>
</xsl:call-template>
</xsl:variable>
```

```
</xsl:stylesheet>
```

```
<!--
```

```
- Local variables:
```

```
- mode: sgml
```

```
- End:
```

```
-->
```

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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
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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1.493 cairo 1.15.12-4.el7

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1.497 pcsc-lite 1.8.8 8.el7

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1.498 gtk 3.22.30-8.el7_9

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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.

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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.

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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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- 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.
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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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1.507 jaxb-api 2.2.12-b140109.1041

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1.509 pycparser 2.14

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1.510 libvmtools 11.0.5-3.el7_9.3

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base64.c -- routines to encode/decode base64 data

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1.511 libx11 1.6.7-4.el7_9

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1.512 httpspi-servlet 2.2.10

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1.514 pyliblzma 0.5.3 11.e17

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1.515 java-atk-wrapper 0.30.4 5.el7

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1.516 hunspell-en-ca 0.20121024 6.el7

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Alan Beale <biljir@pobox.com> also deserves special credit as he has, in addition to providing the 12Dicts package and being a major contributor to the ENABLE word list, given me an incredible amount of

feedback and created a number of special lists (those found in the Supplement) in order to help improve the overall quality of SCOWL.

The 10 level includes the 1000 most common English words (according to the Moby (TM) Words II [MWords] package), a subset of the 1000 most common words on the Internet (again, according to Moby Words II), and frequently class 16 from Brian Kelk's "UK English Wordlist with Frequency Classification".

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Date: Sat, 08 Jul 2000 20:27:21 +0100
From: Brian Kelk <Brian.Kelk@cl.cam.ac.uk>

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> Wordlist With Frequency Classification" word list as it seems to
> be lacking any copyright notice.

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Date: Tue, 11 Jul 2000 19:31:34 +0100

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That is the intention.

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1.518 perl 5.16.3-299.el7_9

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1.519 atk 2.28.1 2.e17

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1.520 libtiff 4.0.3-35.el7

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1.522 jansson 2.10 1.el7

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1.523 perl-libwww-perl 6.05 2.el7

1.524 biosdevname 0.7.3 2.el7

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1.526 perl-file-path 2.09 2.e17

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```
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```

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1.536 cryptography 1.7.2

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1.537 jaxb-core 2.2.10-b140802.1033

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1.539 urllib3 1.10.2

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Contributions to the urllib3 project

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Contributors

In chronological order:

- * victor.vde <<http://code.google.com/u/victor.vde/>>
- * HTTPS patch (which inspired HTTPSConnectionPool)

- * erikcederstrand <<http://code.google.com/u/erikcederstrand/>>
- * NTLM-authenticated HTTPSConnectionPool
- * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

- * niphlod <niphlod@gmail.com>
- * Client-verified SSL certificates for HTTPSConnectionPool
- * Response gzip and deflate encoding support
- * Better unicode support for filepost using StringIO buffers

- * btoconnor <brian@btoconnor.net>
- * Non-multipart encoding for POST requests

- * p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>
- * Code review, PEP8 compliance, benchmark fix

- * kennethreitz <me@kennethreitz.com>
- * Bugfixes, suggestions, Requests integration

- * georgemarshall <<http://github.com/georgemarshall>>
- * Bugfixes, Improvements and Test coverage

- * Thomas Kluyver <thomas@kluyver.me.uk>
- * Python 3 support

- * brandon-rhodes <<http://rhodesmill.org/brandon>>
- * Design review, bugfixes, test coverage.

- * studer <theo.studer@gmail.com>
- * IPv6 url support and test coverage

- * Shivaram Lingamneni <slingamn@cs.stanford.edu>
- * Support for explicitly closing pooled connections

- * hartator <hartator@gmail.com>
- * Corrected multipart behavior for params

- * Thomas Weischuh <thomas@t-8ch.de>
- * Support for TLS SNI
- * API unification of ssl_version/cert_reqs
- * SSL fingerprint and alternative hostname verification
- * Bugfixes in testsuite

- * Sune Kirkeby <mig@ibofobi.dk>
- * Optional SNI-support for Python 2 via PyOpenSSL.

- * Marc Schlaich <marc.schlaich@gmail.com>
- * Various bugfixes and test improvements.

- * Bryce Boe <bbzbryce@gmail.com>
- * Correct six.moves conflict
- * Fixed pickle support of some exceptions

- * Boris Figovsky <boris.figovsky@ravellosystems.com>
- * Allowed to skip SSL hostname verification

- * Cory Benfield <<http://lukasa.co.uk/about/>>
- * Stream method for Response objects.
- * Return native strings in header values.
- * Generate 'Host' header when using proxies.

- * Jason Robinson <jaywink@basshero.org>
- * Add missing WrappedSocket.fileno method in PyOpenSSL

- * Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- * Fixed a race condition

- * Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- * Added HTTPS (CONNECT) proxy support

- * Stephen Holsapple <sholsapp@gmail.com>
- * Added abstraction for granular control of request fields

- * Martin von Gagern <Martin.vGagern@gmx.net>
- * Support for non-ASCII header parameters

- * Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- * Support for separate connect and request timeouts

- * Peter Waller <p@pwaller.net>
- * HTTPResponse.tell() for determining amount received over the wire

- * Nipunn Koorapati <nipunn1313@gmail.com>
- * Ignore default ports when comparing hosts for equality

- * Danilo @dbrgn <http://dbrgn.ch/>
- * Disabled TLS compression by default on Python 3.2+
- * Disabled TLS compression in pyopenssl contrib module
- * Configurable cipher suites in pyopenssl contrib module

- * Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- * Account retries on proxy errors

- * Nicolas Delaby <nicolas.delaby@ezeep.com>
- * Use the platform-specific CA certificate locations

- * Josh Schneier <https://github.com/jschneier>
- * HTTPHeaderDict and associated tests and docs
- * Bugfixes, docs, test coverage

- * Tahia Khan <http://tahia.tk/>
- * Added Timeout examples in docs

- * Arthur Grunseid <http://grunseid.com>
- * source_address support and tests (with https://github.com/bui)

- * Ian Cordasco <graffatcolmingov@gmail.com>
- * PEP8 Compliance and Linting
- * Add ability to pass socket options to an HTTP Connection

- * Erik Tollerud <erik.tollerud@gmail.com>
- * Support for standard library io module.

- * Krishna Prasad <kprasad.iitd@gmail.com>
- * Google App Engine documentation

- * Aaron Meurer <asmeurer@gmail.com>
- * Added Url.url, which unparses a Url

- * Evgeny Kapun <abacabadabacaba@gmail.com>
- * Bugfixes

- * Benjamin Meyer <bm_witness@yahoo.com>
- * Security Warning Documentation update for proper capture

- * Shivan Sornarajah <github@sornars.com>
- * Support for using ConnectionPool and PoolManager as context managers.

- * Alex Gaynor <alex.gaynor@gmail.com>
- * Updates to the default SSL configuration

* [Your name or handle] <[email or website]>

* [Brief summary of your changes]

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1.541 streambuffer 1.5.3

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1.544 abrt 2.1.11-60.el7.centos

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1.545 lvm2 2.02.187-6.el7_9.5

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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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1.550 authconfig 6.2.8 30.e17

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1.551 libjpeg-turbo 1.2.90 8.el7

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README for release 6b of 27-Mar-1998

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DOCUMENTATION ROADMAP

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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

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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 by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

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:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

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](ftp://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 from <ftp://ftp.sgi.com/graphics/tiff/>.

ARCHIVE LOCATIONS

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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/>. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

send usenet/news.answers/jpeg-faq/part1

send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

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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 PBPLUS 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 PBPLUS/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

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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

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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.

1.552 harfbuzz 1.7.5 2.e17

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.OH 'Disc Quotas in a \s-2UNIX\s+2 Environment"SMM:4-%'

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.TL

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.FS

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.FE

.AU

Robert Elz

.AI

Department of Computer Science

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Victoria,

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.AB

.PP

In most computing environments, disc space is not infinite.

The disc quota system provides a mechanism to control usage of disc space, on an individual basis.

.PP

Quotas may be set for each individual user, on any, or all filesystems.

.PP

The quota system will warn users when they exceed their allotted limit, but allow some extra space for current work.

Repeatedly remaining over quota at logout, will cause a fatal over quota condition eventually.

.PP

The quota system is an optional part of \s-2VMUNIX\s0 that may be included when the system is configured.

.AE

.NH 1

Users' view of disc quotas

.PP

To most users, disc quotas will either be of no concern, or a fact of life that cannot be avoided.

The

\fIquota\fP|(1)

command will provide information on any disc quotas that may have been imposed upon a user.

.PP

There are two individual possible quotas that may be imposed, usually if one is, both will be.

A limit can be set on the amount of space a user can occupy, and there may be a limit on the number of files (inodes) he can own.

.PP

.I Quota

provides information on the quotas that have been set by the system administrators, in each of these areas, and current usage.

.PP

There are four numbers for each limit, the current usage, soft limit (quota), hard limit, and number of remaining login warnings.

The soft limit is the number of 1K blocks (or files) that the user is expected to remain below.

Each time the user's usage goes past this limit, he will be warned.

The hard limit cannot be exceeded.

If a user's usage reaches this number, further requests for space (or attempts to create a file) will fail with an EDQUOT error, and the first time this occurs, a message will be written to the user's terminal.

Only one message will be output, until space occupied is reduced below the limit, and reaches it again, in order to avoid continual noise from those programs that ignore write errors.

.PP

Whenever a user logs in with a usage greater than his soft limit, he will be warned, and his login warning count decremented.

When he logs in under quota, the counter is reset to its maximum value (which is a system configuration parameter, that is typically 3).

If the warning count should ever reach zero (caused by three successive logins over quota), the particular limit that has been exceeded will be treated as if the hard limit has been reached, and no more resources will be allocated to the user.

The \fBonly\fP way to reset this condition is to reduce usage below quota, then log in again.

.NH 2

Surviving when quota limit is reached

.PP

In most cases, the only way to recover from over quota conditions, is to abort whatever activity was in progress

on the filesystem that has reached its limit, remove sufficient files to bring the limit back below quota, and retry the failed program.

.PP

However, if you are in the editor and a write fails because of an over quota situation, that is not a suitable course of action, as it is most likely that initially attempting to write the file will have truncated its previous contents, so should the editor be aborted without correctly writing the file not only will the recent changes be lost, but possibly much, or even all, of the data that previously existed.

.PP

There are several possible safe exits for a user caught in this situation.

He may use the editor `\fB!\fP` shell escape command to examine his file space, and remove surplus files.

Alternatively, using `\fIcsh\fP`, he may suspend the editor, remove some files, then resume it.

A third possibility, is to write the file to some other filesystem (perhaps to a file on `/tmp`) where the user's quota has not been exceeded.

Then after rectifying the quota situation, the file can be moved back to the filesystem it belongs on.

.NH 1

Administering the quota system

.PP

To set up and establish the disc quota system, there are several steps necessary to be performed by the system administrator.

.PP

First, the system must be configured to include the disc quota sub-system.

This is done by including the line:

.DS

options QUOTA

.DE

in the system configuration file, then running

`\fIconfig\fP\|(8)`

followed by a system configuration `\s-3\u*\d\s0`.

.FS

* See also the document ``Building 4.2BSD UNIX Systems with Config''.

.FE

.PP

Second, a decision as to what filesystems need to have quotas applied needs to be made.

Usually, only filesystems that house users' home directories, or other user files, will need to be subjected to the quota system, though it may also prove useful to also include `/usr`.

If possible, `/tmp` should usually be free of quotas.

.PP

Having decided on which filesystems quotas need to be set upon, the administrator should then allocate the available space amongst the competing needs. How this should be done is (way) beyond the scope of this document.

.PP

Then, the

`edquota`

command can be used to actually set the limits desired upon each user. Where a number of users are to be given the same quotas (a common occurrence) the `-p` switch to `edquota` will allow this to be easily accomplished.

.PP

Once the quotas are set, ready to operate, the system must be informed to enforce quotas on the desired filesystems.

This is accomplished with the

`quotaon`

command.

.I Quotaon

will either enable quotas for a particular filesystem, or with the `-a` switch, will enable quotas for each filesystem indicated in `/etc/fstab` as using quotas.

See

`fstab`

for details.

Most sites using the quota system, will include the line

.DS C

`/etc/quotaon -a`

.DE

in `/etc/rc.local`.

.PP

Should quotas need to be disabled, the

`quotaoff`

command will do that, however, should the filesystem be about to be dismounted, the

`umount`

command will disable quotas immediately before the filesystem is unmounted.

This is actually an effect of the

`umount`

system call, and it guarantees that the quota system will not be disabled if the unmount would fail

because the filesystem is not idle.

.PP

Periodically (certainly after each reboot, and when quotas are first enabled for a filesystem), the records retained in the quota file should be checked for consistency with the actual number of blocks and files allocated to the user.

The

`\fquotacheck\fP`(8)

command can be used to accomplish this.

It is not necessary to dismount the filesystem, or disable the quota system to run this command, though on active filesystems inaccurate results may occur.

This does no real harm in most cases, another run of

`.I quotacheck`

when the filesystem is idle will certainly correct any inaccuracy.

.PP

The super-user may use the

`\fquota\fP`(1)

command to examine the usage and quotas of any user, and the

`\frepquota\fP`(8)

command may be used to check the usages and limits for all users on a filesystem.

.NH 1

Some implementation detail.

.PP

Disc quota usage and information is stored in a file on the filesystem that the quotas are to be applied to.

Conventionally, this file is `\fBquotas\fR` in the root of the filesystem.

While this name is not known to the system in any way, several of the user level utilities "know" it, and choosing any other name would not be wise.

.PP

The data in the file comprises an array of structures, indexed by uid, one structure for each user on the system (whether the user has a quota on this filesystem or not).

If the uid space is sparse, then the file may have holes in it, which would be lost by copying, so it is best to avoid this.

.PP

The system is informed of the existence of the quota file by the

`\fIsetquota\fP`(2)

system call.

It then reads the quota entries for each user currently active, then for any files open owned by users who

are not currently active.

Each subsequent open of a file on the filesystem, will be accompanied by a pairing with its quota information. In most cases this information will be retained in core, either because the user who owns the file is running some process, because other files are open owned by the same user, or because some file (perhaps this one) was recently accessed.

In memory, the quota information is kept hashed by user-id and filesystem, and retained in an LRU chain so recently released data can be easily reclaimed.

Information about those users whose last process has recently terminated is also retained in this way.

.PP

Each time a block is accessed or released, and each time an inode is allocated or freed, the quota system gets told about it, and in the case of allocations, gets the opportunity to object.

.PP

Measurements have shown that the quota code uses a very small percentage of the system cpu time consumed in writing a new block to disc.

.NH 1

Acknowledgments

.PP

The current disc quota system is loosely based upon a very early scheme implemented at the University of New South Wales, and Sydney University in the mid 70's. That system implemented a single combined limit for both files and blocks on all filesystems.

.PP

A later system was implemented at the University of Melbourne by the author, but was not kept highly accurately, eg: chown's (etc) did not affect quotas, nor did i/o to a file other than one owned by the instigator.

.PP

The current system has been running (with only minor modifications) since January 82 at Melbourne.

It is actually just a small part of a much broader resource control scheme, which is capable of controlling almost anything that is usually uncontrolled in unix. The rest of this is, as yet, still in a state where it is far too subject to change to be considered for distribution.

.PP

For the 4.2BSD release, much work has been done to clean up and sanely incorporate the quota code by Sam Leffler and Kirk McKusick at The University of California at Berkeley.

Found in path(s):

* /opt/cola/permits/1008492310_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/doc/quotas.ms

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* /opt/cola/permits/1008492310_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/pot.po

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```
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mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/quota.c
* /opt/cola/permits/1008492310_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-
mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/quotaon.c
* /opt/cola/permits/1008492310_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-
mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/quotaio_v1.c
* /opt/cola/permits/1008492310_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-
mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/edquota.c
* /opt/cola/permits/1008492310_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-
mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/quotaops.c
```

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

/*

```
* QUOTA  An implementation of the diskquota system for the LINUX operating
*        system. QUOTA is implemented using the BSD syscall interface
*        as the means of communication with the user level. Should work for
*        all filesystems because of integration into the VFS layer of the
*        operating system. This is based on the Melbourne quota system wich
*        uses both user and group quota files.
```

*

```
*        Program to mail to users that they are over there quota.
```

*

```
* Author: Marco van Wieringen <mvw@planets.elm.net>
```

*

```
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```

*/

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```
* /opt/cola/permits/1008492310_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-
mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/warnquota.c
```

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```
* /opt/cola/permits/1008492310_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-
mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/xqmstats.8
* /opt/cola/permits/1008492310_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-
mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/quotastats.8
```

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/*

```
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```

```
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```

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*

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 mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/quot.h
 * /opt/cola/permits/1008492310_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-
 mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/quot.c

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/*

* QUOTA An implementation of the diskquota system for the LINUX operating
 * system. QUOTA is implemented using the BSD syscall interface
 * as the means of communication with the user level. Should work for
 * all filesystems because of integration into the VFS layer of the
 * operating system. This is based on the Melbourne quota system wich
 * uses both user and group quota files.

*

* Program to query for the internal statistics.

*

* Author: Marco van Wieringen <mvw@planets.elm.net>

*

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02111-1307 USA. */

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mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/svc_socket.c

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/*

* QUOTA An implementation of the diskquota system for the LINUX operating
* system. QUOTA is implemented using the BSD syscall interface
* as the means of communication with the user level. Should work for
* all filesystems because of integration into the VFS layer of the
* operating system. This is based on the Melbourne quota system which
* uses both user and group quota files.

*

* Rquota service handlers.

*

* Author: Marco van Wieringen <mvw@planets.elm.net>

* changes for new utilities by Jan Kara <jack@suse.cz>

* patches by Jani Jaakkola <jjaakkol@cs.helsinki.fi>
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mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/rquota_svc.c
No license file was found, but licenses were detected in source scan.

/*

* A daemon to read quota warning messages from the kernel netlink socket
* and either pipe them to the system DBUS or write them to user's console
*
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mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/quota_nld.c
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/*

* QUOTA An implementation of the diskquota system for the LINUX
* operating system. QUOTA is implemented using the BSD syscall
* interface as the means of communication with the user level.
* Should work for all filesystems because of integration into the
* VFS layer of the operating system.
* This is based on the Melbourne quota system wich uses both user and
* group quota files.
*
* This part does the rpc-communication with the rquotad.
*
* Author: Marco van Wieringen <mvw@planets.elm.net>
*

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* /opt/cola/permits/1008492310_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/rquota_client.c

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* /opt/cola/permits/1008492310_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-mSjAC3Ah/quota.spec

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Options to pass to rpc.rquotad daemon. See rpc.rquotad(8) manual page for

more details.

-I, --autofs Ignore autofs mount points

-p port, --port port Listen on alternative port

-s, --no-setquota Don't allow setting quotas with RPC (default)

-S, --setquota Allow setting quotas with RPC

-x path, --xtab path Use alternative NFS export table

RPCRQUOTADOPTS=""

Found in path(s):

* /opt/cola/permits/1008492310_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-mSjAC3Ah/rpc-rquotad.sysconfig

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/*

* QUOTA An implementation of the diskquota system for the LINUX

* operating system. QUOTA is implemented using the BSD syscall

* interface as the means of communication with the user level.

* Should work for all filesystems because of integration into the

* VFS layer of the operating system.

* This is based on the Melbourne quota system which uses both user and

* group quota files.

*
* This part does the lookup of the info.
*
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1.555 libdmx 1.1.3 3.el7

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1.556 jersey-client 2.22.1

1.557 nss 3.67.0-4.el7_9

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Version 3, 29 June 2007

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1.559 six 1.9.0

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The primary author and maintainer of six is Benjamin Peterson. He would like to acknowledge the following people who submitted bug reports, pull requests, and otherwise worked to improve six:

Marc Abramowitz
Alexander Artemenko
Aymeric Augustin
Ned Batchelder
Jason R. Coombs
Julien Danjou
Ben Darnell
Ben Davis
Tim Graham
Thomas Grainger
Joshua Harlow

Anselm Kruis
Alexander Lukanin
James Mills
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1.560 libvmtools 10.1.5.59732

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>>> freebsd-1.72
>>> freebsd-base64-4.8
>>> icu4c-4.4.1
>>> unicode-5.0

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>>> freebsd-base64-4.8

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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Version 2.1, February 1999

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1.561 tiger-types 1.4

1.561.1 Available under license :

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head profile="http://www.w3.org/1999/xhtml/vocab">
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1" />
  <link rel="shortcut icon" href="https://opensource.org/files/osi_favicon.png" type="image/png" />
  <meta name="HandheldFriendly" content="true" />
  <link rel="shortlink" href="/node/47" />
  <meta name="Generator" content="Drupal 7 (http://drupal.org)" />
  <link rel="canonical" href="/licenses/CDDL-1.0" />
  <meta name="MobileOptimized" content="width" />
  <title>Common Development and Distribution License (CDDL-1.0) | Open Source Initiative</title>
  <link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_xE-rWfJf-
fncB6ztZfd2huxqgxu4WO-qwma6Xer30m4.css" media="all" />
  <link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_4p37TiWeuzRfdymI_IPgCuu6wEwSDhUquxUkHLI7QnU.css"
media="all" />
```

```

<link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_MnXiyJtb186Ydycnpwpw34cuUsHaKc80ey5LiQXhSY.css"
media="all" />
<link type="text/css" rel="stylesheet" href="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/css/bootstrap.min.css"
media="all" />
<link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_KGZcOm3i1wmtbgZsjo-
3V9FM4wZ-5UDcpJ7Vfzmt45E.css" media="all" />
<link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_G9cu63kkDQ56GYuF3QrqJxma5HT-bUVZckUWKUzFCF4.css"
media="all" />

```

```

<!--[if (lt IE 9)]>
<link type="text/css" rel="stylesheet" href="https://opensource.org/sites/all/themes/bootstrap-
business/css/ie8.css?ol0qr1" media="all" />
<![endif]-->

```

```

<!-- HTML5 element support for IE6-8 -->
<!--[if lt IE 9]>
<script src="//html5shiv.googlecode.com/svn/trunk/html5.js"></script>
<![endif]-->
<script type="text/javascript" src="//code.jquery.com/jquery-1.10.2.min.js"></script>
<script type="text/javascript">
<!--/--><![CDATA[//><!--
window.jQuery || document.write("<script
src='/sites/all/modules/jquery_update/replace/jquery/1.10/jquery.min.js'\>\x3C/script>")
//--><![]]>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_aczm2rRgH_slWBPnvD3KMrK7rwa1i99HOq8IUAb99Co.js"></script>
<script type="text/javascript" src="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/js/bootstrap.min.js"></script>
<script type="text/javascript">
<!--/--><![CDATA[//><!--
jQuery(document).ready(function($) {
$(window).scroll(function() {
if($(this).scrollTop() != 0) {
$("#toTop").fadeIn();
} else {
$("#toTop").fadeOut();
}
});

$("#toTop").click(function() {
$("body,html").animate({scrollTop:0},800);
});

});
//--><![]]>

```

```

</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_ruOYJN6FkJU2O5L1dAKVnDloSn5R6LjnLW88zFxS1Uw.js"></script>
<script type="text/javascript" src="https://opensource.org/files/js/js_JQHTvV_SkyFIN3f2BnQwnusF-
eI6tkX8wrKAk2siiZU.js"></script>
<script type="text/javascript">
<!----><![CDATA[//<!--
jQuery.extend(Drupal.settings,
{ "basePath":"\/", "pathPrefix":""," "ajaxPageState":{"theme":"bootstrap_business","theme_token":"Qt73Xdx7obPk_s
4eeCH7buQWxzLFf5Um2HpId-Siv9s","js":{"\/code.jquery.com\/jquery-
1.10.2.min.js":1,"0":1,"misc\/jquery.once.js":1,"misc\/drupal.js":1,"\/maxcdn.bootstrapcdn.com\/bootstrap\/3.2.0\/js
\/bootstrap.min.js":1,"1":1,"sites\/all\/libraries\/superfish\/jquery.hoverIntent.minified.js":1,"sites\/all\/libraries\/supe
rfish\/sftouchscreen.js":1,"sites\/all\/libraries\/superfish\/sfsmallscreen.js":1,"sites\/all\/libraries\/superfish\/suppositi
on.js":1,"sites\/all\/libraries\/superfish\/superfish.js":1,"sites\/all\/libraries\/superfish\/supersubs.js":1,"sites\/all\/mod
ules\/superfish\/superfish.js":1,"sites\/all\/themes\/bootstrap-
business\/js\/jquery.browser.min.js":1},"css":{"modules\/system\/system.base.css":1,"modules\/system\/system.men
us.css":1,"modules\/system\/system.messages.css":1,"modules\/system\/system.theme.css":1,"modules\/aggregator\/
aggregator.css":1,"modules\/comment\/comment.css":1,"modules\/field\/theme\/field.css":1,"sites\/all\/modules\/mol
lom\/mollom.css":1,"modules\/node\/node.css":1,"modules\/search\/search.css":1,"modules\/user\/user.css":1,"sites\/
all\/modules\/views\/css\/views.css":1,"sites\/all\/modules\/ctools\/css\/ctools.css":1,"\/maxcdn.bootstrapcdn.com\/
bootstrap\/3.2.0\/css\/bootstrap.min.css":1,"sites\/all\/libraries\/superfish\/css\/superfish.css":1,"sites\/all\/themes\/bo
otstrap-business\/css\/style.css":1,"sites\/all\/themes\/bootstrap-
business\/color\/colors.css":1,"sites\/all\/themes\/bootstrap-business\/css\/local.css":1,"sites\/all\/themes\/bootstrap-
business\/css\/ie8.css":1}}, "urlIsAjaxTrusted":{"\/licenses\/cddl1.php":true},"superfish":{"1":{"id":"1","sf":{"anima
tion":{"opacity":"show","height":"show"},"speed":"\u0027fast\u0027","autoArrows":false,"dropShadows":true,"dis
ableHI":false},"plugins":{"touchscreen":{"mode":"window_width"},"smallscreen":{"mode":"window_width"},"add
Selected":false,"menuClasses":false,"hyperlinkClasses":false,"title":"Navigation"},"supposition":true,"bgiframe":fal
se,"supersubs":{"minWidth":"12","maxWidth":"27","extraWidth":1}}}}});
//--><![]]>
</script>
</head>
<body class="html not-front not-logged-in no-sidebars page-node page-node- page-node-47 node-type-page" >
<div id="skip-link">
  <a href="#main-content" class="element-invisible element-focusable">Skip to main content</a>
</div>
  <div id="toTop"><span class="glyphicon glyphicon-chevron-up"></span></div>

<!-- #header-top -->
<div id="header-top" class="clearfix">
  <div class="container">

    <!-- #header-top-inside -->
    <div id="header-top-inside" class="clearfix">
      <div class="row">

        <div class="col-md-8">

```

```

        <!-- #header-top-left -->
        <div id="header-top-left" class="clearfix">
            <div class="region region-header-top-left">
                <div id="block-menu-secondary-menu" class="block block-menu clearfix">

<div class="content">
    <ul class="menu"><li class="first leaf"><a href="/" title="">Home</a></li>
<li class="leaf"><a href="/blog" title="">From the Board</a></li>
<li class="leaf"><a href="/contact" title="">Contact</a></li>
<li class="last leaf"><a href="/civicrm/contribute/transact?reset=1&id=2" title="">Donate</a></li>
</ul> </div>
</div>
</div>
        <!-- EOF:#header-top-left -->
    </div>

        <div class="col-md-4">
            <!-- #header-top-right -->
            <div id="header-top-right" class="clearfix">
                <div class="region region-header-top-right">
                    <div id="block-search-form" class="block block-search clearfix">

<div class="content">
    <form action="/licenses/cddl1.php" method="post" id="search-block-form" accept-charset="UTF-8"><div><div
class="container-inline">
    <h2 class="element-invisible">Search form</h2>
    <div class="form-item form-type-textfield form-item-search-block-form">
<input onblur="if (this.value == &#039;&#039;) { this.value = &#039;Search this website...&#039;;}" onfocus="if
(this.value == &#039;Search this website...&#039;) { this.value = &#039;&#039;;}" type="text" id="edit-search-
block-form--2" name="search_block_form" value="Search this website..." size="15" maxlength="128"
class="form-text" />
</div>
<div class="form-actions form-wrapper" id="edit-actions"><input value="" type="submit" id="edit-submit"
name="op" class="form-submit" /></div><input type="hidden" name="form_build_id" value="form-
bHQObyvdpYpP9q-Fw-RUMqMbj_-M2JMQxkrV017VnrI" />
<input type="hidden" name="form_id" value="search_block_form" />
</div>
</div></form> </div>
</div>
</div>
        <!-- EOF:#header-top-right -->
    </div>

</div>

```

```

</div>
<!-- EOF: #header-top-inside -->

</div>
</div>
<!-- EOF: #header-top -->

<!-- header -->
<header id="header" role="banner" class="clearfix">
  <div class="container">

    <!-- #header-inside -->
    <div id="header-inside" class="clearfix">
      <div class="row">
        <div class="col-md-8">

          <div id="logo">
            <a href="/" title="Home" rel="home">  </a>
          </div>

          <div id="site-name">
            <a href="/" title="Home">Open Source Initiative</a>
          </div>

        </div>

        <div class="col-md-4">

          </div>
        </div>
      </div>
    </div>
  </div>
<!-- EOF: #header-inside -->

</div>
</header>
<!-- EOF: #header -->

<!-- #main-navigation -->
<div id="main-navigation" class="clearfix">
  <div class="container">

    <!-- #main-navigation-inside -->
    <div id="main-navigation-inside" class="clearfix">
      <div class="row">
        <div class="col-md-12">

```



```
<nav role="navigation">
    <div class="region region-navigation">
<div id="block-superfish-1" class="block block-superfish clearfix">
```

```
<div class="content">
```

```
<ul id="superfish-1" class="menu sf-menu sf-navigation sf-horizontal sf-style-none sf-total-items-6 sf-parent-
items-6 sf-single-items-0"><li id="menu-37-1" class="first odd sf-item-1 sf-depth-1 sf-total-children-4 sf-parent-
children-2 sf-single-children-2 menuparent"><a href="/about" title="About the Open Source Initiative" class="sf-
depth-1 menuparent">About</a><ul><li id="menu-75-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a
href="/history" title="History of the OSI" class="sf-depth-2">History</a></li><li id="menu-82-1" class="middle
even sf-item-2 sf-depth-2 sf-total-children-7 sf-parent-children-0 sf-single-children-7 menuparent"><a
href="/board" title="Board of Directors" class="sf-depth-2 menuparent">Board</a><ul><li id="menu-83-1"
class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/docs/board-annotated" title="OSI Board -- With
Annotations" class="sf-depth-3">Board - Annotated</a></li><li id="menu-96-1" class="middle even sf-item-2 sf-
depth-3 sf-no-children"><a href="/minutes" title="Public Minutes of Board Meetings" class="sf-depth-
3">Minutes</a></li><li id="menu-185-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children"><a
href="/organization" title="These portfolios represent the activities of the current OSI board." class="sf-depth-
3">Organization & Operations</a></li><li id="menu-95-1" class="middle even sf-item-4 sf-depth-3 sf-no-
children"><a href="/articles-of-incorporation" title="OSI incorporation record" class="sf-depth-3">Articles of
Incorporation</a></li><li id="menu-1475-1" class="middle odd sf-item-5 sf-depth-3 sf-no-children"><a
href="/elections" class="sf-depth-3">Board Elections</a></li><li id="menu-84-1" class="middle even sf-item-6 sf-
depth-3 sf-no-children"><a href="/bylaws" title="Bylaws of the Open Source Initiative" class="sf-depth-
3">Bylaws</a></li><li id="menu-1317-1" class="last odd sf-item-7 sf-depth-3 sf-no-children"><a
href="/conflict_of_interest_policy" title="" class="sf-depth-3">Conflict of Interest</a></li></ul></li><li id="menu-
1843-1" class="middle odd sf-item-3 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2
menuparent"><a href="/trademark" title="" class="sf-depth-2 menuparent">Trademark & Logo</a><ul><li
id="menu-184-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/trademark-guidelines"
title="OSI's Trademark Policy" class="sf-depth-3">Trademark Guidelines</a></li><li id="menu-183-1"
class="last even sf-item-2 sf-depth-3 sf-no-children"><a href="/logo-usage-guidelines" title="Guidelines for
appearance and usage of OSI Logo" class="sf-depth-3">Logo Guidelines</a></li></ul></li><li id="menu-126-1"
class="last even sf-item-4 sf-depth-2 sf-no-children"><a href="/ToS" title="Rules for posting content on this site"
class="sf-depth-2">Terms of Service</a></li></ul></li><li id="menu-65-1" class="middle even sf-item-2 sf-depth-
1 sf-total-children-5 sf-parent-children-3 sf-single-children-2 menuparent"><a href="/licenses" class="sf-depth-1
menuparent">Licenses</a><ul><li id="menu-61-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-1 sf-
parent-children-0 sf-single-children-1 menuparent"><a href="/osd" title="The actual OSD defining what constitutes
an Open Source licence" class="sf-depth-2 menuparent">Open Source Definition</a><ul><li id="menu-62-1"
class="firstandlast odd sf-item-1 sf-depth-3 sf-no-children"><a href="/osd-annotated" title="The OSD with
explanations and rationale interspersed." class="sf-depth-3">OSD - Annotated</a></li></ul></li><li id="menu-
77-1" class="middle even sf-item-2 sf-depth-2 sf-no-children"><a href="/licenses/category" title="Licenses by
Category" class="sf-depth-2">Licenses by Category</a></li><li id="menu-72-1" class="middle odd sf-item-3 sf-
depth-2 sf-no-children"><a href="/licenses/alphabetical" title="Licenses that are approved by the OSI as conforming
to the OSD" class="sf-depth-2">Licenses by Name</a></li><li id="menu-66-1" class="middle even sf-item-4 sf-
depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent"><a href="/approval"
title="Certifying licences as OSD-compliant" class="sf-depth-2 menuparent">License Review Process</a><ul><li
id="menu-67-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/proliferation" title="Supporting
choice while maintaining sanity" class="sf-depth-3">Licence Proliferation</a></li><li id="menu-69-1" class="last
even sf-item-2 sf-depth-3 sf-no-children"><a href="/proliferation-report" title="License Proliferation
```

Committee's report to the OSI Board" class="sf-depth-3">LP report to the Board<li id="menu-99-1" class="last odd sf-item-5 sf-depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent">Open Standards<li id="menu-101-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">The Open Standards Requirement<li id="menu-102-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">Open Standards Requirement Compliance<li id="menu-100-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children">Open Standards Requirement Rationale<li id="menu-103-1" class="last even sf-item-4 sf-depth-3 sf-no-children">OSR Frequently Asked Questions<li id="menu-1842-1" class="middle odd sf-item-3 sf-depth-1 sf-total-children-3 sf-parent-children-2 sf-single-children-1 menuparent">Membership<li id="menu-914-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-1 sf-parent-children-0 sf-single-children-1 menuparent">Individuals<li id="menu-897-1" class="firstandlast odd sf-item-1 sf-depth-3 sf-no-children">Join<li id="menu-675-1" class="middle even sf-item-2 sf-depth-2 sf-total-children-3 sf-parent-children-0 sf-single-children-3 menuparent">Affiliates<li id="menu-676-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Become an Affiliate<li id="menu-677-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">List of Affiliates<li id="menu-2071-1" class="last odd sf-item-3 sf-depth-3 sf-no-children">Affiliate Criteria<li id="menu-1436-1" class="last odd sf-item-3 sf-depth-2 sf-no-children">Sponsors & Support<li id="menu-1841-1" class="middle even sf-item-4 sf-depth-1 sf-total-children-4 sf-parent-children-1 sf-single-children-3 menuparent">Community<li id="menu-63-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent">Mailing lists<li id="menu-78-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">General Code of Conduct<li id="menu-1072-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">Licensing Code of Conduct<li id="menu-2111-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children">Disclaimer for OSI Public Forums<li id="menu-2110-1" class="last even sf-item-4 sf-depth-3 sf-no-children">Policy on Public Communications and Archives<li id="menu-2032-1" class="middle even sf-item-2 sf-depth-2 sf-no-children">Volunteers<li id="menu-1846-1" class="middle odd sf-item-3 sf-depth-2 sf-no-children">Wiki<li id="menu-1524-1" class="last even sf-item-4 sf-depth-2 sf-no-children">OSI Store<li id="menu-1840-1" class="middle odd sf-item-5 sf-depth-1 sf-total-children-5 sf-parent-children-1 sf-single-children-4 menuparent">Resources<li id="menu-342-1" class="first odd sf-item-1 sf-depth-2 sf-no-children">FAQ<li id="menu-38-1" class="middle even sf-item-2 sf-depth-2 sf-no-children">OSI Board Blog<li id="menu-45-1" class="middle odd sf-item-3 sf-depth-2 sf-

```
total-children-2 sf-parent-children-0 sf-single-children-2 menuparent"><a href="/help" title="Resources for
questions and further exploration" class="sf-depth-2 menuparent">Getting Help</a><ul><li id="menu-76-1"
class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/links" title="Links and References to Open Source"
class="sf-depth-3">Bibliography</a></li><li id="menu-125-1" class="last even sf-item-2 sf-depth-3 sf-no-
children"><a href="/advocacy/case_for_business.php" title="How to advocate Open Source to businesses"
class="sf-depth-3">Open Source Case for Business</a></li></ul></li><li id="menu-1514-1" class="middle even
sf-item-4 sf-depth-2 sf-no-children"><a href="/working_groups" class="sf-depth-2">Working Groups</a></li><li
id="menu-12-1" class="last odd sf-item-5 sf-depth-2 sf-no-children"><a href="/osi-open-source-education"
title="OSI&#039;s Open Source Education Initiative and Activities" class="sf-depth-2">Open Source
Education</a></li></ul></li><li id="menu-1844-1" class="last even sf-item-6 sf-depth-1 sf-total-children-2 sf-
parent-children-0 sf-single-children-2 menuparent"><a href="/news" title="Page dedicated to the latest news and
events." class="sf-depth-1 menuparent">News & Events</a><ul><li id="menu-1845-1" class="first odd sf-item-1
sf-depth-2 sf-no-children"><a href="/newsletters" title="Index of newsletters" class="sf-depth-
2">Newsletters</a></li><li id="menu-1999-1" class="last even sf-item-2 sf-depth-2 sf-no-children"><a
href="/events" class="sf-depth-2">Events</a></li></ul></li></ul> </div>
```

```
</div>
```

```
</div>
```

```
</nav>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<!-- EOF: #main-navigation-inside -->
```

```
</div>
```

```
</div>
```

```
<!-- EOF: #main-navigation -->
```

```
<!-- #page -->
```

```
<div id="page" class="clearfix">
```

```
<!-- #main-content -->
```

```
<div id="main-content">
```

```
<div class="container">
```

```
<!-- #messages-console -->
```

```
<!-- EOF: #messages-console -->
```

```
<div class="row">
```

```
<section class="col-md-12">
```

```
<!-- #main -->
```

```
<div id="main" class="clearfix">
```

```
<!-- EOF:#content-wrapper -->
<div id="content-wrapper">
```

```
<h1 class="page-title">Common Development and Distribution
License (CDDL-1.0)</h1>
```

```
<!-- #tabs -->
<div class="tabs">
</div>
<!-- EOF: #tabs -->
```

```
<!-- #action links -->
<!-- EOF: #action links -->
```

```
<div class="region region-content">
<div id="block-system-main" class="block block-system clearfix">
```

```
<div class="content">
<article id="node-47" class="node node-page clearfix">
```

```
<div class="content">
<div class="field field-name-body field-type-text-with-summary field-label-hidden"><div class="field-
items"><div class="field-item even"><div align="right">
<button onclick="myFunction()">Further resources on <b>CDDL-1.0</b></button>
```

```
<p id="demo"></p>
```

```
<script>
<!--//--><![CDATA[// ><!--
```

```
function myFunction() {
  var x;
  if (confirm("Disclaimer: While the OSI acknowledges these as potentially helpful resources for the community, it
does not endorse any content, contributors or license interpretations from these websites. Any links to these
resources across opensource.org are solely for navigational purposes. The OSI does not promote or exclusively favor
any of the mentioned resources, but instead provides them as separate third-party resource to help inform your
opinion. Any content from or links to these resources are separate from the OSI, exist for purely informational
purposes and creates no attorney-client relationship between you, the OSI or the resources. If you have questions
about how licenses apply to you or your organization, you should seek legal advice. ") == true) {
    x = "<br><p>The following are other community resources that may be helpful:<br><br><a
href=https://tldrlegal.com/license/common-development-and-distribution-license-%28cddl-1.0%29-explained
style='font-weight: bold;'>Common Development and Distribution License (CDDL-1.0) on TLDRLegal<br><a
href=http://www.gnu.org/licenses/license-list.en.html>GNU License List<br><a
```

```
href=https://en.wikipedia.org/wiki/Comparison_of_free_and_open-source_software_licenses>Wikipedia License  
List<br><a href=http://oss-watch.ac.uk/apps/licdiff/>OSSWatch License Diff<br><a  
href=choosealicense.com>Choosealicense";
```

```
    } else {  
        x = " ";  
    }  
    document.getElementById("demo").innerHTML = x;  
}
```

```
//--><![]]>  
</script></div>
```

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Version 1.0 (CDDL-1.0)

[text](cddl1.txt)

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```

    </div>

    </div>
</div>
<!-- EOF:#main-content -->

</div>
<!-- EOF:#page -->

<footer id="subfooter" class="clearfix">
  <div class="container">

    <!-- #subfooter-inside -->
    <div id="subfooter-inside" class="clearfix">
      <div class="row">
        <div class="col-md-12">
          <!-- #subfooter-left -->
          <div class="subfooter-area">

              <div class="region region-footer">
<div id="block-block-11" class="block block-block clearfix">

<div class="content">
  <div class="filler" style="vertical-align: middle; display: inline-block;">
<p style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align: middle;">
<a href="https://twitter.com/OpenSourceOrg" style="margin: 0pt auto; display: table-cell; text-align: center;
vertical-align: middle;"></a>

<a href="https://plus.google.com/+opensourceinitiative" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;"></a>

<a href="https://www.linkedin.com/company/open-source-initiative-osi-" style="margin: 0pt auto; display: table-
cell; text-align: center; vertical-align: middle;"></a>

<a href="http://wiki.opensource.org" style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align:
middle;"></a>

<a href="http://creativecommons.org/licenses/by/4.0/" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;"></a>

```
<script id="fbwiuwz">
<!--//--><![CDATA[// ><!--
(function(i){var
f,s=document.getElementById(i);f=document.createElement('iframe');f.src="//api.flattr.com/button/view/?uid=osi&u
rl=http%3A%2F%2Fopensource.org';f.title='Flattr';f.height=70;f.width=70;f.style.borderWidth=0;s.parentNode.inse
rtBefore(f,s);})('fbwiuwz');
//--><![]>
</script></p>
</div>
```

```

<div class="license" style="vertical-align: middle; display: inline-block;">
<p>
Opensource.org site content is licensed under a <a rel="license"
href="http://creativecommons.org/licenses/by/4.0/">Creative Commons Attribution 4.0 International License.
</p>
<p>
Terms of Service
</p>
</div>
</div>
</div>
<div id="block-block-7" class="block block-block clearfix">
```

```
<div class="content">
<script src="https://www.google-analytics.com/urchin.js" type="text/javascript">
<!--//--><![CDATA[// ><!--
```

```
//--><![]>
</script><script type="text/javascript">
<!--//--><![CDATA[// ><!--
```

```
_uacct = "UA-3916956-1";
urchinTracker();
```

```
//--><![]>
</script> </div>
</div>
</div>
```

```
</div>
<!-- EOF: #subfooter-left -->
</div>
</div>
</div>
```

```
<!-- EOF: #subfooter-inside -->

</div>
</footer>
<!-- EOF:#subfooter -->
</body>
</html>
```

# 1.562 augeas 1.4.0-10.el7

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## 1.563 perl-net-libidn 0.12 15.e17

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It was created by Thomas Jacob <jacob@internet24.de> using dh-make-perl.

The upstream author is:

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## 1.567 sblim-sfcb 1.3.16 12.e17\_0

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\* @(#)bitstring.h 8.1 (Berkeley) 7/19/93

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## 1.570 python-ldap 2.4.15 2.el7

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## 1.571 perl-mozilla-ca 20130114 5.el7

## 1.572 perl-threads 1.87 4.el7

# 1.573 python-paramiko 2.1.1 9.e17

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Ty Coon, President of Vice
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cmd/krb5/iprof/iprof_hdr.h
cmd/krb5/kadmin/server/iprofd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
```

lib/krb5/kdb/kdb\_log.c  
lib/krb5/kdb/kdb\_log.h  
lib/libgss/g\_accept\_sec\_context.c  
lib/libgss/g\_acquire\_cred.c  
lib/libgss/g\_canon\_name.c  
lib/libgss/g\_compare\_name.c  
lib/libgss/g\_context\_time.c  
lib/libgss/g\_delete\_sec\_context.c  
lib/libgss/g\_dsp\_name.c  
lib/libgss/g\_dsp\_status.c  
lib/libgss/g\_dup\_name.c  
lib/libgss/g\_exp\_sec\_context.c  
lib/libgss/g\_export\_name.c  
lib/libgss/g\_glue.c  
lib/libgss/g\_imp\_name.c  
lib/libgss/g\_imp\_sec\_context.c  
lib/libgss/g\_init\_sec\_context.c  
lib/libgss/g\_initialize.c  
lib/libgss/g\_inquire\_context.c  
lib/libgss/g\_inquire\_cred.c  
lib/libgss/g\_inquire\_names.c  
lib/libgss/g\_process\_context.c  
lib/libgss/g\_rel\_buffer.c  
lib/libgss/g\_rel\_cred.c  
lib/libgss/g\_rel\_name.c  
lib/libgss/g\_rel\_oid\_set.c  
lib/libgss/g\_seal.c  
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lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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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  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/ipropr\_hdr.h  
kadmin/server/ipropr\_svc.c  
lib/kdb/ipropr.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/kproplog.c

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## 1.585 pyxattr 0.5.1 5.e17

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```
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under certain conditions; type `show c' for details.
```

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```
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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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# 1.596 javax-annotation-api 1.2

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## 1.597 libjpeg 1.2.90-8.el7

### 1.597.1 Available under license :

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```
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 *
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 *
 * 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, jdhuft.c, and jdphuff.c.
 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdinput.c
```

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; more details.
```

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```
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archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-
1.2.90/simd/jfmmxint.asm
```

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
```

archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2int-64.asm

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2int.asm

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfss2int-64.asm

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jimxint.asm

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfss2int.asm

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/\*

\* jdmarker.c

\*

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\*

\* 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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmarker.c

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```
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 * jchuff.c
 *
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 *
 * This file contains Huffman entropy encoding routines.
 *
 * Much of the complexity here has to do with supporting output suspension.
 * If the data destination 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 JPEG objects only upon successful completion of an MCU.
 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jchuff.c
```

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```
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 *
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 *
 * 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/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdapistd.c
```

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```
/*
 * jidctfst.c
 *
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 *
 * 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/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jidctfst.c
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```

```
/*
 * jdct.h
 *
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 *
 * 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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdct.h

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\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJDecompressor.java

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/TJExample.java

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJ.java  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/TJUnitTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJLoader.java  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/turbojpeg-jni.c  
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```
/*
* jidctred.c
*
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*
* 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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jidctred.c  
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```
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* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
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```

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 \*  
 \* 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  
 \* Digital Image Warping, George Wolberg, 1990.  
 \* Pub. by IEEE Computer Society Press, Los Alamitos, CA. ISBN 0-8186-8944-7.  
 \*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
 archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdsample.c  
 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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmerge.c

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

/\*

\* jctrans.c

\*

- \* Copyright (C) 1995-1998, Thomas G. Lane.
- \* Modified 2000-2009 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 library routines for transcoding compression,
- \* that is, writing raw DCT coefficient arrays to an output JPEG file.
- \* The routines in jcapimin.c will also be needed by a transcoder.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jctrans.c

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

/\*

\* 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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcprepct.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jcapimin.c

\*

\* Copyright (C) 1994-1998, Thomas G. Lane.

\* Modified 2003-2010 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 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 jcparam.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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcapimin.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jdpostct.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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdpostct.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jpegint.h

\*

\* Copyright (C) 1991-1997, Thomas G. Lane.

\* Modified 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 provides common declarations for the various JPEG modules.

\* 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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jpegint.h

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

/\*

\* jdmgext.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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmgext.c

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

/\*

\* rdtarga.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 read input images in Targa format.

\*

\* 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 Targa format).  
\*  
\* Based on code contributed by Lee Daniel Crocker.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdtarga.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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/transupp.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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jddctmgr.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](mailto: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):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/doc/html/jquery.js

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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jccoefct.c

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

/\*

\* jerror.h

\*

\* Copyright (C) 1994-1997, Thomas G. Lane.

\* Modified 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 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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jerror.h

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

/\*

\* rdcolmap.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 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:
**
** Copyright (C) 1988 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.
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdcolmap.c
No license file was found, but licenses were detected in source scan.
```

```
/*
* jdcoefct.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* 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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdcoefct.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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcomapi.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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/djpeg.c  
No license file was found, but licenses were detected in source scan.

/\*

\* `jmorecfg.h`

\*

\* 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 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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jmorecfg.h  
No license file was found, but licenses were detected in source scan.

{\rtf1\ansi\ansicpg1252\cocoartf1038\cocoasubrtf360

{\fonttbl{\f0\fswiss\fcharset0 Helvetica;}

{\colortbl;\red255\green255\blue255;}

\margl1440\margr1440\vieww26380\viewh15840\viewkind0

\defstab720

\pard\pardefstab720\ql\qnatural

\f0\fs24 \cf0 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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/release/ReadMe.rtf

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

/\*

\* jcmaint.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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcmaint.c

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

\* (implementing the ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81).

\*

\* 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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcarith.c

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

```
/*
 * rdppm.c
 *
 * Copyright (C) 1991-1997, 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 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:
**
** Copyright (C) 1988 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.
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdppm.c
```

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

```
/*
 * 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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcphuff.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jmemsys.h

\*

\* Copyright (C) 1992-1997, 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 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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jmemsys.h  
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  
 \* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT  
 \* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,  
 \* Speech, and Signal Processing 1989 (ICASSP '89), pp. 988-991.  
 \* 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:  
 \* NxN (N=1...16) pixels for one 8x8 input DCT block.  
 \*  
 \* For N<8 we simply take the corresponding low-frequency coefficients of  
 \* the 8x8 input DCT block and apply an NxN point IDCT on the sub-block  
 \* to yield the downsampled 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 NxN 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 8x8 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.  
 \*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
 archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jidctint.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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jmemnobs.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.
- \* Modified 2003-2011 by Guido Vollbeding.
- \* 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
- \* 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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/cjpeg.c

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

purpose, subject to the conditions under LEGAL ISSUES, below.  
fitness for a particular purpose. This software is provided "AS IS", and you,  
All Rights Reserved except as specified below.  
Permission is hereby granted to use, copy, modify, and distribute this  
It is copyright by the Free Software Foundation but is freely distributable.  
reasons for developing this free software was to help force convergence on

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/README
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 jsimdx.inc
*
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jsimd.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.
* Modified 2009-2011 by Guido Vollbeding.
* 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/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdatasrc.c
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
```

```
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
```

```
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
```

```
* Speech, and Signal Processing 1989 (ICASSP '89), pp. 988-991.
```

```
* 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/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jfdctint.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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jutils.c  
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.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdhuff.h  
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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdcolor.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 `jdatadst.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:

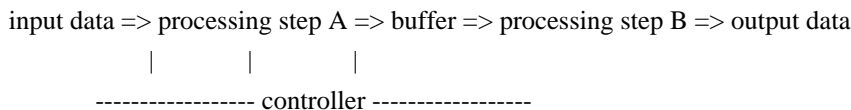
1A. Startup initialization at the beginning of image processing.  
The individual processing modules to be used in this run are selected and given initialization calls.

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:



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:

```

 |-- Colospace 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 colospace 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  $V_{max}$  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 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:

```
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  $\geq 0$ . 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

```
GETJSAMPLE(image[colorcomponent][row][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:

```
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 structure.

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'etre 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 MSDOS machines; else usually the same as  
`jpeg_get_small/jpeg_free_small`

`jpeg_mem_available` estimate available memory

jpeg\_open\_backing\_store create a backing-store object

read\_backing\_store, manipulate a backing-store object

write\_backing\_store,

close\_backing\_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\_open\_backing\_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.

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/structure.txt
No license file was found, but licenses were detected in source scan.
```

```
/*
```

```
* jcpam.c
```

```
*
```

```
* This file was part of the Independent JPEG Group's software:
```

```
* Copyright (C) 1991-1998, Thomas G. Lane.
```

```
* Modified 2003-2008 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 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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcparam.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jquant1.c

\*

\* This file was part of the Independent JPEG Group's software:  
\* Copyright (C) 1991-1996, Thomas G. Lane.  
\* 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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jquant1.c  
No license file was found, but licenses were detected in source scan.

/\*

\* wrjpgcom.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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrjpgcom.c  
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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcinit.c  
No license file was found, but licenses were detected in source scan.

/\*  
\* cdjpeg.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 common support routines used by the IJG application  
\* programs (cjpeg, djpeg, jpegtran).  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/cdjpeg.c  
No license file was found, but licenses were detected in source scan.

/\*  
\* jfdctflt.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 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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
 archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jfdctflt.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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
 archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmaster.c

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

```
/*
 * jquant2.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains 2-pass color quantization (color mapping) routines.
 * These routines provide selection of a custom color map for an image,
 * followed by mapping of the image to that color map, with optional
 * Floyd-Steinberg dithering.
 * 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/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jquant2.c
```

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

```
/*
 * jdhuft.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 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/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
```



archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdhuff.c  
No license file was found, but licenses were detected in source scan.

```
{\rtf1\ansi\ansicpg1252\cocoartf1038\cocoasubrtf350
{\fonttbl{\f0\fswiss\fcharset0 Helvetica;}
{\colortbl;\red255\green255\blue255;}
{*\listtable{\list\listtemplateid1\listhybrid{\listlevel\levelnfc23\levelnfc23\leveljc0\leveljcn0\levelfollow0\levelsta
rtat1\levelspace360\levelindent0{*\levelmarker \{ disc\}}{\leveltext\leveltemplateid1\01\uc0\u8226
};{\levelnumbers;}\fi-360\li720\lin720 }{\listname ;}\listid1 }}
{*\listoverrideable{\listoverride\listid1\listoverridecount0\ls1 }}
\margl1440\margr1440\vieww9820\viewh8480\viewkind0
\defstab720
\pard\pardefstab720
```

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```
\
\pard\tx220\tx720\pardefstab720\li720\fi-720
\ls1\ilvl0\cf0 {\listtext \95 }Redistributions of source code must retain the above copyright notice, this list of
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```

```
\pard\pardefstab720\qc
\cf0 \
\pard\pardefstab720
```

```
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}
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-
1.2.90/release/License.rtf
```

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.
;
; This software is provided 'as-is', without any express or implied
; warranty. In no event will the authors be held liable for any damages
; arising from the use of this software.
;
; Permission is granted to anyone to use this software for any purpose,
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;
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; 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.
;
; [TAB8]
;
; =====
; 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
#define SEG_CONST .rdata align=16 public use32 class=CONST
#endif

#ifdef WIN64 ; ----(nasm -fwin64 -DWIN64 ...)-----
; * Microsoft Visual C++

```

```

; -- 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 use64 class=CODE
%define SEG_CONST .rdata align=16 public use64 class=CONST
%endif
%define EXTN(name) name ; foo() -> foo

%elifdef OBJ32 ; ----(nasm -fobj -DOBJ32 ...)-----
; * Borland C++ (Win32)

; -- segment definition --
;
%define SEG_TEXT .text align=16 public use32 class=CODE
%define SEG_CONST .data align=16 public use32 class=DATA

%elifdef ELF ; ----(nasm -felf[64] -DELFB ...)-----
; * Linux
; * *BSD family Unix using elf format
; * Unix System V, including Solaris x86, UnixWare and SCO Unix

; mark stack as non-executable
section .note.GNU-stack noalloc noexec nowrite progbits

; -- segment definition --
;
%ifdef __x86_64__
%define SEG_TEXT .text progbits align=16
%define SEG_CONST .rodata progbits align=16
%else
%define SEG_TEXT .text progbits alloc exec nowrite align=16
%define SEG_CONST .rodata progbits alloc noexec nowrite align=16
%endif

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL _GLOBAL_OFFSET_TABLE_ ; ELF supports PIC
%define EXTN(name) name ; foo() -> foo

%elifdef AOUT ; ----(nasm -faoutb/aout -DAOUT ...)----
; * Older Linux using a.out format (nasm -f aout -DAOUT ...)
; * *BSD family Unix using a.out format (nasm -f aoutb -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

%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

; NASM is buggy and doesn't properly handle operand sizes for SSE
; instructions, so for now we have to define XMMWORD as blank.
%define XMMWORD ; int128 (SSE register)
%define SIZEOF_XMMWORD SIZEOF_OWORD ; sizeof(XMMWORD)
%define XMMWORD_BIT OWORD_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_OWORD 16 ; sizeof(OWORD)

%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 OWORD_BIT 128 ; sizeof(OWORD)*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

%ifdef PIC ; -----

%ifidn GOT_SYMBOL,_MACHO_PIC_ ; -----

```

; 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 1

; NOTE: this macro destroys ecx register.

call %%geteip

add ecx, byte (%%ref - \$)

jmp short %%adjust

%%geteip:

mov ecx, POINTER [esp]

ret

%%adjust:

push ebp

xor ebp,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)

db 0x8D,0x9C ; 8D,9C

jmp near 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)

db 0x8D,0x8C ; 8D,8C

jmp near const\_base ; E9,(const\_base-%%ref)

%%ref: mov %1, ecx

%endif ; (%1 == ebx)

pop ebp

%endmacro

%else ; GOT\_SYMBOL != \_MACHO\_PIC\_ -----

%define GOTOFF(got,sym) (got) + (sym) wrt ..gotoff

%imacro get\_GOT 1

extern GOT\_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 pushpic 1.nolist
push %1
%endmacro
%imacro poppic 1.nolist
pop %1
%endmacro
%imacro movpic 2.nolist
mov %1,%2
%endmacro

%else ; !PIC -----

%define GOTOFF(got,sym) (sym)

%imacro get_GOT 1.nolist
%endmacro
%imacro pushpic 1.nolist
%endmacro
%imacro poppic 1.nolist
%endmacro
%imacro movpic 2.nolist
%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,0xAC,0x25,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/6 \
 db 0x8D,0xAD,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/4 \
 db 0x8D,0x6C,0x25,0x00 ; lea ebp,[ebp+0x00]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/3 \

```

```

 db 0x8D,0x6D,0x00 ; lea ebp,[ebp+0x00]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/2 \
 db 0x8B,0xED ; mov ebp,ebp
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/1 \
 db 0x90 ; nop
%endmacro

```

; Align the next data on {2,4,8,16,..}-byte boundary.

;

```

%imacro alignz 1.nolist
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/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-
1.2.90/simd/jsimdext.inc
```

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

```
/*
```

```
* 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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jchuff.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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdapimin.c  
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:  
\* Copyright (C) 1995-2010, 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 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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jpegtran.c

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

// Natural Docs is licensed under the GPL.

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/doc/html/search/search.js

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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdatadst-tj.c

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

/\*

\* rdrle.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 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 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 RLE format).  
\*  
\* Based on code contributed by Mike Lijewski,  
\* with updates from Robert Hutchinson.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdrle.c  
No license file was found, but licenses were detected in source scan.

/\*

\* 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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdbmp.c

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

```
/*
 * jccolor.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) 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/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jccolor.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/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdjpgcom.c
No license file was found, but licenses were detected in source scan.
```

License: IJG

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo.spec
No license file was found, but licenses were detected in source scan.
```

```
/*
 * jconfig.txt
```

```

*
* 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.
*/
#undef NEED_SYS_TYPES_H

/* 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.
 */

#ifndef 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

#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 \*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jconfig.txt

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

/\*

\* jpeglib.h

\*

\* This file was part of the Independent JPEG Group's software:

\* Copyright (C) 1991-1998, Thomas G. Lane.

\* Modified 2002-2009 by Guido Vollbeding.

\* Modifications:

\* Copyright (C) 2009-2011, 2013, D. R. Commander.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* 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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jpeglib.h

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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jversion.h  
No license file was found, but licenses were detected in source scan.

# Copyright (C)2009-2011 D. R. Commander. All Rights Reserved.  
# 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  
# - Neither the name of the libjpeg-turbo Project nor the names of its  
# software without specific prior written permission.

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/release/uninstall.in  
No license file was found, but licenses were detected in source scan.

## IJG JPEG LIBRARY: CODING RULES

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.

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 [jpeg/doc/cstyle.ms.tbl.Z](#), or [cstyle.txt.Z](#) for those without nroff/tbl).

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 cjpeg.c and djpeg.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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/coderules.txt  
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

\* (implementing the ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81).

\*

\* 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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdarith.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.

\* Modifications:

\* 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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-

archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcdctmgr.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/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jerror.c
No license file was found, but licenses were detected in source scan.
```

```
/*
 * Copyright (C)2011 D. R. Commander. All Rights Reserved.
 *
 * 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,
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```

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\* 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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-  
1.2.90/java/org/libjpegturbo/turbojpeg/TJTransformer.java  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-  
1.2.90/java/org/libjpegturbo/turbojpeg/TJTransform.java  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/tjutil.h  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-  
1.2.90/java/org/libjpegturbo/turbojpeg/TJScalingFactor.java  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/tjutil.c  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-  
1.2.90/java/org/libjpegturbo/turbojpeg/TJLoader.java.in  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcstest.c  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/bmp.h  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-  
1.2.90/java/org/libjpegturbo/turbojpeg/TJCustomFilter.java  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/bmp.c  
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From c51b66ebcace2adec0cfbe42d25cb418ed0c02a2 Mon Sep 17 00:00:00 2001

From: DRC <information@libjpeg-turbo.org>

Date: Fri, 20 Jul 2018 17:21:36 -0500

Subject: [PATCH] cjpeg: Fix OOB read caused by malformed 8-bit BMP

... in which one or more of the color indices is out of range for the  
number of palette entries.

Fix partly borrowed from jpeg-9c. This commit also adopts Guido's  
JERR\_PPM\_OUTOFRANGE enum value in lieu of our project-specific  
JERR\_PPM\_TOOLARGE enum value.

Fixes #258

---

cderror.h | 5 +++--

rdbmp.c | 7 ++++++--

rdppm.c | 4 +++--

3 files changed, 11 insertions(+), 5 deletions(-)

diff --git a/cderror.h b/cderror.h

index d69b501..46b0f49 100644

--- a/cderror.h

+++ b/cderror.h

@@ -2,7 +2,7 @@

\* cderror.h

\*

\* Copyright (C) 1994-1997, Thomas G. Lane.

- \* Modified 2009 by Guido Vollbeding.

+ \* Modified 2009-2017 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.

\*

@@ -48,6 +48,7 @@ JMESSAGE(JERR\_BMP\_COLORSPACE, "BMP output must be grayscale or RGB")

JMESSAGE(JERR\_BMP\_COMPRESSED, "Sorry, compressed BMPs not yet supported")

JMESSAGE(JERR\_BMP\_EMPTY, "Empty BMP image")

JMESSAGE(JERR\_BMP\_NOT, "Not a BMP file - does not start with BM")

+JMESSAGE(JERR\_BMP\_OUTOFRANGE, "Numeric value out of range in BMP file")

JMESSAGE(JTRC\_BMP, "%ux%u 24-bit BMP image")

JMESSAGE(JTRC\_BMP\_MAPPED, "%ux%u 8-bit colormapped BMP image")

JMESSAGE(JTRC\_BMP\_OS2, "%ux%u 24-bit OS2 BMP image")

@@ -74,8 +75,8 @@ JMESSAGE(JWRN\_GIF\_NOMOREDATA, "Ran out of GIF bits")

#ifdef PPM\_SUPPORTED

JMESSAGE(JERR\_PPM\_COLORSPACE, "PPM output must be grayscale or RGB")

JMESSAGE(JERR\_PPM\_NONNUMERIC, "Nonnumeric data in PPM file")

-JMESSAGE(JERR\_PPM\_TOOLARGE, "Integer value too large in PPM file")

JMESSAGE(JERR\_PPM\_NOT, "Not a PPM/PGM file")

+JMESSAGE(JERR\_PPM\_OUTOFRANGE, "Numeric value out of range in PPM file")

JMESSAGE(JTRC\_PGM, "%ux%u PGM image")

JMESSAGE(JTRC\_PGM\_TEXT, "%ux%u text PGM image")

JMESSAGE(JTRC\_PPM, "%ux%u PPM image")

diff --git a/rdbmp.c b/rdbmp.c

index c053074..7a27cab 100644

--- a/rdbmp.c

+++ b/rdbmp.c

@@ -3,7 +3,7 @@

\*

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\* Copyright (C) 1994-1996, Thomas G. Lane.

- \* Modified 2009-2010 by Guido Vollbeding.

+ \* Modified 2009-2017 by Guido Vollbeding.



```

* Modifications:
* Modified 2011 by Siarhei Siamashka.
* For conditions of distribution and use, see the accompanying README file.
@@ -64,6 +64,7 @@ typedef struct _bmp_source_struct {
 JDIMENSION row_width; /* Physical width of scanlines in file */

 int bits_per_pixel; /* remembers 8- or 24-bit format */
+ int cmap_length; /* colormap length */
} bmp_source_struct;

@@ -124,6 +125,7 @@ get_8bit_row (j_compress_ptr cinfo, jpeg_source_ptr sinfo)
{
 bmp_source_ptr source = (bmp_source_ptr) sinfo;
 register JSAMPARRAY colormap = source->colormap;
+ int cmaplen = source->cmap_length;
 JSAMPARRAY image_ptr;
 register int t;
 register JSAMPROW inptr, outptr;
@@ -140,6 +142,8 @@ get_8bit_row (j_compress_ptr cinfo, jpeg_source_ptr sinfo)
 outptr = source->pub.buffer[0];
 for (col = cinfo->image_width; col > 0; col--) {
 t = GETJSAMPLE(*inptr++);
+ if (t >= cmaplen)
+ ERREXIT(cinfo, JERR_BMP_OUTOFRANGE);
 outptr++ = colormap[0][t]; / can omit GETJSAMPLE() safely */
 *outptr++ = colormap[1][t];
 *outptr++ = colormap[2][t];
@@ -399,6 +403,7 @@ start_input_bmp (j_compress_ptr cinfo, jpeg_source_ptr sinfo)
 source->colormap = (*cinfo->mem->alloc_sarray)
 ((j_common_ptr) cinfo, JPOOL_IMAGE,
 (JDIMENSION) biClrUsed, (JDIMENSION) 3);
+ source->cmap_length = (int)biClrUsed;
 /* and read it from the file */
 read_colormap(source, (int) biClrUsed, mapentrysize);
 /* account for size of colormap */
diff --git a/rdppm.c b/rdppm.c
index 5da1646..59da2bb 100644
--- a/rdppm.c
+++ b/rdppm.c
@@ -76,7 +76,7 @@ typedef struct {
 JSAMPROW pixrow; /* FAR pointer to same */
 size_t buffer_width; /* width of I/O buffer */
 JSAMPLE *rescale; /* => maxval-remapping array, or NULL */
- int maxval;
+ unsigned int maxval;
} ppm_source_struct;

```

```

typedef ppm_source_struct * ppm_source_ptr;
@@ -126,7 +126,7 @@ read_pbm_integer (j_compress_ptr cinfo, FILE * infile, int maxval)
}

if (val > maxval)
- ERREXIT(cinfo, JERR_PPM_TOOLARGE);
+ ERREXIT(cinfo, JERR_PPM_OUTOFRANGE);

return val;
}
--
2.17.2

```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo12-CVE-2018-14498.patch

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```

/*
 * 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
 * Digital Image Warping, George Wolberg, 1990.
 * Pub. by IEEE Computer Society Press, Los Alamitos, CA. ISBN 0-8186-8944-7.

```

```

*
* 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.
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcsample.c
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```

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/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/release/deb-
control.tmpl
```

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

```
/*
```

```
* jsimd_x86_64.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 a
```

```
* x86_64 architecture.
```

```
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-
1.2.90/simd/jsimd_x86_64.c
```

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

```
;
```

```
; jdct.inc - 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/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdct.inc
No license file was found, but licenses were detected in source scan.

```

```

** 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:

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```

** Using libjpeg-turbo

```

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
=====
```

### Un\*x

----

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 0m0.020s
```

[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 (msvcr90.dll). msvcr90.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

---

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.)

=====

#### Colorspace 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:

```
#ifdef 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 colorspace 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:

```
#ifdef JCS_ALPHA_EXTENSIONS
```

`jcstest.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_SRCDEST=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 Un\*x 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 Un\*x 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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/README-turbo.txt

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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdtrans.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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdphuff.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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcmaster.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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrbmp.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jcapistd.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 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.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcapistd.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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/transupp.h  
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

\* (ISO/IEC IS 11544 and CCITT Recommendation ITU-T T.82).

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jaricom.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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jpegcomp.h

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.

\* Modified 2009-2011 by Guido Vollbeding.

\* 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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdatasrc-tj.c  
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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jccolext.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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdatadst.c  
No license file was found, but licenses were detected in source scan.

/\*

\* cerror.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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/cerror.h  
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 MASKMOVDQU 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".
- [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 jsimdcfg.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.

[4] Added new RGBA/BGRA/ABGR/ARGB colorspace extension constants (libjpeg API) 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`.

[6] 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.

[4] Improved the performance of the C color conversion routines, which are used on platforms for which SIMD acceleration is not available.

[5] 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.

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

[7] 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.

[8] 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.

[9] libjpeg-turbo can now be built with YASM.

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

[11] 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 TJBUFFSIZE() 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.

[12] 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).

[13] 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.

[14] 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.

[6] Eliminated excessive I/O overhead that occurred when reading BMP files in `cjpeg`.

[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  $\geq 98$  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.

[4] Fixed visual artifacts in grayscale JPEG compression caused by a typo in the RGB-to-luminance lookup tables.

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

[6] All packages now include jpgtest.

[7] The TurboJPEG dynamic library now uses versioned symbols.

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

1.0.90 (1.1 beta1)

=====

[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.

[2] Created a new CMake-based build system for the Visual C++ and MinGW builds.

[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

=====

[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.

[4] Created a 32-bit supplementary package for amd64 Debian systems, which contains just the 32-bit libjpeg-turbo libraries.

[5] Moved the libraries from \*/lib32 to \*/lib in the i386 Debian package.

[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

=====

[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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/ChangeLog.txt

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 jsimdext.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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimd\_i386.c

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

/\*

\* jdmainct.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 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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmainct.c

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/\*

\* jinclude.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.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-

archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jinclude.h  
No license file was found, but licenses were detected in source scan.

```
/*
 * rdgif.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 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."
 */
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdgif.c
No license file was found, but licenses were detected in source scan.
```

```
/*
 * simd/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/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimd.h
No license file was found, but licenses were detected in source scan.
```

```
/*
 * rdswitch.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 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
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdswitch.c

```

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

```

;
; jcolsamp.inc - private declarations for color conversion & up/downsampling
;
; 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]

```

```

; -----

```

```

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

```

```

;-----

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-
1.2.90/simd/jcolsamp.inc

```

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

```

/*

```

```

* wrtarga.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 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.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrtarga.c  
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.

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\* 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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrgif.c

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:

Copyright (C) 1994-2011, 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 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

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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

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Data formats

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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,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 `jmreconf.h`. (You can also change the RGB pixel layout, say to B,G,R order, by modifying `jmreconf.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

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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

```
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:

```
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 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 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:

```
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:

```
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

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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:

```
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:

```
FILE * infile;
...
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);
```

## 9. Aborting.

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.

Mechanics of usage: include files, linking, etc

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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:

JDCT\_ISLOW: slow but accurate integer algorithm

JDCT\_IFAST: faster, less accurate integer method

JDCT\_FLOAT: floating-point method

JDCT\_DEFAULT: default method (normally JDCT\_ISLOW)

JDCT\_FASTEST: fastest method (normally JDCT\_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. JDCT\_DEFAULT and JDCT\_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.

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:

```
cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;
```

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.

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.

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.

int quant\_tbl\_no



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

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.

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

int num\_components 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  $\Leftrightarrow$  YCbCr and CMYK  $\Leftrightarrow$  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 jccolor.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 `jqquant2.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<=>YCK 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-YCK 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 YCK 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

-----

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:

```
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 EOIs. 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

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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

(`JPEG_SUSPENDED` can occur only if a suspending data source is used.) 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":

```

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"):

```

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_colorspace()` 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->comp_info[i].width_in_blocks*DCTSIZE` samples per row  
`cinfo->comp_info[i].height_in_blocks*DCTSIZE` 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->comp_info[0].h_samp_factor = 2 for Y
cinfo->comp_info[0].v_samp_factor = 2
cinfo->comp_info[1].h_samp_factor = 1 for Cb
cinfo->comp_info[1].v_samp_factor = 1
cinfo->comp_info[2].h_samp_factor = 1 for Cr
cinfo->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_barray` method (see Memory management, below, and also `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 `cinfo.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 insert additional calls inside some of the library's inner loops.)

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

$$\frac{\text{completed\_passes} + \text{pass\_counter}}{\text{pass\_limit}}$$

-----  
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 `jmcorecfg.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 `jmreconf.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`, `jmreconf.h`, and `jinclude.h`.

Notes for MS-DOS implementors

-----

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/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/libjpeg.txt
```

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/libjpegturbo/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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/README  
No license file was found, but licenses were detected in source scan.

/\*

\* jdcoext.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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdcolex.c

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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/cdjpeg.h

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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfmmxfst.asm

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfss2fst.asm

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2fst-64.asm

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jimxfst.asm

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2fst-64.asm

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfss2fst-64.asm

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/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jsimddct.h
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/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcmarker.c
No license file was found, but licenses were detected in source scan.
```

```
/*
 * jmemmgr.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...)
- \*/

Found in path(s):

- \* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jmemmgr.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.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jidctflt.c  
No license file was found, but licenses were detected in source scan.

/\*

\* Copyright (C)2009-2012 D. R. Commander. All Rights Reserved.

\*

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\* modification, are permitted provided that the following conditions are met:

\*

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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  
\* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN  
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\* 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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/tjbench.c

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/tjunittest.c

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/turbojpeg.c

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/turbojpeg.h

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-
1.2.90/java/TJBench.java
```

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/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jsimd_none.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/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/release/libjpeg-
turbo.spec.in
```

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

```
/*
* 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/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-
1.2.90/simd/jsimd_arm.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](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.

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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 Frhling 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](mailto:sachingarg@c10n.info)

[www.sachingarg.com](http://www.sachingarg.com) | [www.c10n.info](http://www.c10n.info) | [www.imagecompression.info](http://www.imagecompression.info)

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-
1.2.90/testimages/nightshot_iso_100.txt
```

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.
 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jfdctfst.c
```

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

```
/*
 * wrtle.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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrrle.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/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimdcpu.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jimxred.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jccolss2.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcclrss2-64.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcgryss2-64.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdmerss2-64.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfsseflt.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcsammmx.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfsseflt-64.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdmermmx.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-

1.2.90/simd/jcsamss2.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcclrss2.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcqnts2i.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdcolss2.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcqnts2f.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/ji3dnflt.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jccolss2-64.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2flt.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jccolmmx.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdclrmmx.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdmrgmmx.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcqnts2i-64.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcgryss2.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jf3dnflt.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdmerss2.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdmrgss2-64.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdsamss2.asm



```
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcsamss2-64.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdcolss2-64.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdsammmx.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2flt-64.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdsamss2-64.asm
```

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/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrppm.c
```

## 1.598 python-backports-ssl-match-hostname

### 3.5.0.1 1.el7

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## Special Recognition ##

One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

Contributors:

The Red Hat developers, without whom CentOS would look very different

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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.

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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.)

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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.

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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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That's all there is to it!

# 1.610 python-pyasn1 0.1.9 7.e17

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## 1.611 libusb 1.0.21-1.el7

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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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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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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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NR START END SECTORS SIZE NAME UUID

1 32 7679 7648 3.7M 8f8378c0-01

2 7680 16383 8704 4.3M 8f8378c0-02

5 7936 12799 4864 2.4M

6 12544 16127 3584 1.8M

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## 1.621 file 5.11-37.el7

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```
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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(agg@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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Version 2.1, February 1999

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\* m4/ax\_func\_which\_gethostbyname\_r.m4

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Version 3, 29 June 2007

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Developed by:

LLVM Team

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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 @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

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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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```
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@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
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@page

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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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@var{signature of Ty Coon}, 1 April 1990  
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@settitle GNU Free Documentation License  
@c man begin SEEALSO  
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@c Special handling for inclusion in the install manual.  
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@ifnohtml  
@comment node-name, next, previous, up  
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@end ifnohtml  
@html  
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```

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```
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```
/*
 * regex.h -- regular expression definitions for lsof
 *
 * This header file is used only when the dialect has no POSIX-conformant
 * regular expression function set. When that is the case, the dialect's
 * machine.h will define USE_LIB_REGEX.
 *
 * When the dialect has a POSIX-conformant regular expression function set,
 * USE_LIB_REGEX is not defined and this header file #include's <regex.h>.
 *
 * V. Abell <abe@purdue.edu>
 * Purdue University
 */
```

```
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```
#ifdef USE_LIB_REGEX
```

```
/*
```

```
* This section comes from GLIBC 2.2. It is used only when the dialect
* has no POSIX-conformant regular expression function set. When that is
* the case, the dialect's machine.h will define USE_LIB_REGEX.
*/
```

```
/* Definitions for data structures and routines for the regular
expression library, version 0.12.
```

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```

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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
* details.
*
*
```

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\* along with this program; if not, write to the Free Software  
\* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.  
\*  
\* M. Welsh, 6 July 1996  
\*  
\*  
\*/

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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>  
for the initial saa7146 driver and its recent overhaul

Christian Theiss  
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>  
Ralph Metzler <rjkm@metzlerbros.de>  
for their continuing work on the DVB driver

Michael Holz <kju@debian.org>  
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>  
for CyberLogin for Linux which allows logging onto EON  
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>  
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>  
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>  
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>  
for his LIRC infrared handler

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Ronny Strutz <3des@elitedvb.de>  
Wolfram Joost <dbox2@frokaschwei.de>  
...and all the other dbox2 people  
for many bugfixes in the generic DVB Core, frontend drivers and their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>

for many bugfixes

Andrew de Quincey <adq\_dvb@lidskialf.net>

for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>

for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>

Roberto Ragusa <r.ragusa@libero.it>

Augusto Cardoso <augusto@carhil.net>

for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>

for his work on the budget drivers, the demux code,  
the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>

for his work on calculating and checking the crc's for the  
TechnoTrend/Hauppauge DEC driver firmware

Michael Dreher <michael@5dot1.de>

Andreas 'randy' Weinberger

for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>

for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>

for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>

for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>

for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufky@m1k.net>

for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>

for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>

for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>

for the or51211 and or51132 frontend drivers, and  
for merging the nxt2002 and nxt2004 modules into a  
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a  
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## 1.630 libuser 0.60 9.e17

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## 1.631 icu 57

### 1.631.1 Available under license :

```
-*-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) \$< \

| sed "s^\(\$\*\)\.o[ :]\*^1.o \$@ :/g\" > \$@; \

[ -s \$@ ] || rm -f \$@'

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

@echo "generating dependency information for \$<"

@\$(SHELL) -ec '\$(GEN\_DEPS.cc) \$< \

| sed "s^\(\$\*\)\.o[ :]\*^1.o \$@ :/g\" > \$@; \

[ -s \$@ ] || rm -f \$@'

## 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
```

# 1.632 ding-libs 0.2.1-32.el7

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Version 3, 29 June 2007

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```
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```

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## 1.633 curl 7.29.0-59.el7\_9.1

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OpenSSL <http://www.openssl.org/source/license.html>

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GnuTLS <http://www.gnutls.org/>

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yassl <http://www.yassl.com/>

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axTLS <http://axtls.sourceforge.net/>

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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](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.

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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/>

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(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/>

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# 1.634 perl-scalar-list-utils 1.27 248.el7

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# 1.635 xfsdump 3.1.7 1.e17

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```

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```
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under certain conditions; type `show c' for details.
```

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## 1.641 e2fsprogs 1.42.9-19.el7

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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>.

Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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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 -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(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:

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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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Theodore Ts'o  
23-June-2007

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```
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```
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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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<signature of Ty Coon>, 1 April 1990  
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That's all there is to it!

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:

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```
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```
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```

```
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```

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# 1.644 libutempter 1.1.6 4.el7

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# 1.645 tar 1.26 35.el7

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```

```
* Oracle - initial API and implementation from Oracle TopLink

package org.eclipse.persistence.descriptors.copying;
```

```
import org.eclipse.persistence.exceptions.*;
import org.eclipse.persistence.internal.descriptors.PersistenceObject;
import org.eclipse.persistence.internal.helper.*;
import org.eclipse.persistence.sessions.*;
```

```
/**
 * <p>Purpose</p>: This is the default copy policy when weaving is used.
 *
 * It creates a copy by creating a shallow clone of the object using the weaved _persistence_shallow_clone() method.
 */
public class PersistenceEntityCopyPolicy extends AbstractCopyPolicy {
 public PersistenceEntityCopyPolicy() {
 super();
 }
}
```



```

 }

 public Object buildWorkingCopyClone(Object object, Session session) throws DescriptorException {
 return ((PersistenceObject)object)._persistence_shallow_clone();
 }

 public Object buildClone(Object object, Session session) throws DescriptorException {
 return ((PersistenceObject)object)._persistence_shallow_clone();
 }

 public boolean buildsNewInstance() {
 return false;
 }

 public String toString() {
 return Helper.getShortClassName(this) + "()";
 }
}

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package org.eclipse.persistence.descriptors.copyping;

import java.lang.reflect.*;
import java.security.AccessController;
import java.security.PrivilegedActionException;

import org.eclipse.persistence.exceptions.*;
import org.eclipse.persistence.internal.helper.*;
import org.eclipse.persistence.queries.ObjectBuildingQuery;
import org.eclipse.persistence.sessions.*;
import org.eclipse.persistence.internal.sessions.AbstractRecord;
import org.eclipse.persistence.internal.descriptors.ObjectBuilder;
import org.eclipse.persistence.internal.security.PrivilegedAccessHelper;
import org.eclipse.persistence.internal.security.PrivilegedMethodInvoker;

/**
 * <p>Purpose</p> Allows a clone of an object to be created with a method that returns
 * the cloned object.

```

```

*
* It is possible to define methods for two types of clones
*
* 1. methodName can be set to define the method EclipseLink uses to clone objects for it's
* own internal use. The objects created by this method will not be visible to the user, and
* instead used as a basis for comparison when a DeferredChangeDetectionPolicy used. This method will
* also be in place of the workingCopyMethod if it is not provided
*
* 2. workingCopyMethod this method is used to create the clone that is returned to the user when an
* Object is registered in a UnitOfWork
*/
public class CloneCopyPolicy extends AbstractCopyPolicy {

 /** Allow for clone method to be specified. */
 protected String methodName;
 protected String workingCopyMethodName;
 protected transient Method method;
 protected transient Method workingCopyMethod;

 public CloneCopyPolicy() {
 super();
 }

 /**
 * Clone through calling the clone method.
 */
 public Object buildClone(Object domainObject, Session session) throws DescriptorException {
 // Must allow for null clone method for 9.0.4 deployment XML.
 if (this.getMethodName() == null) {
 return getDescriptor().getObjectBuilder().buildNewInstance();
 }
 try {
 if (PrivilegedAccessHelper.shouldUsePrivilegedAccess()){
 try {
 return AccessController.doPrivileged(new PrivilegedMethodInvoker(this.getMethod(), domainObject,
new Object[0]));
 } catch (PrivilegedActionException exception) {
 Exception throwableException = exception.getException();
 if (throwableException instanceof IllegalAccessException) {
 throw DescriptorException.illegalAccessWhileCloning(domainObject, this.getMethodName(),
this.getDescriptor(), throwableException);
 } else {
 throw DescriptorException.targetInvocationWhileCloning(domainObject, this.getMethodName(),
this.getDescriptor(), throwableException);
 }
 }
 }
 } else {
 }
}

```

```

 return PrivilegedAccessHelper.invokeMethod(this.getMethod(), domainObject, new Object[0]);
 }
} catch (IllegalAccessException exception) {
 throw DescriptorException.illegalAccessWhileCloning(domainObject, this.getMethodName(),
this.getDescriptor(), exception);
} catch (InvocationTargetException exception) {
 throw DescriptorException.targetInvocationWhileCloning(domainObject, this.getMethodName(),
this.getDescriptor(), exception);
}
}

/**
 * Clone through the workingCopyClone method, or if not specified the clone method.
 */
public Object buildWorkingCopyClone(Object domainObject, Session session) throws DescriptorException {
 if (this.getWorkingCopyMethodName() == null) {
 //not implemented to perform special operations.
 return this.buildClone(domainObject, session);
 }

 try {
 if (PrivilegedAccessHelper.shouldUsePrivilegedAccess()){
 try {
 return AccessController.doPrivileged(new PrivilegedMethodInvoker(this.getWorkingCopyMethod(),
domainObject, new Object[0]));
 } catch (PrivilegedActionException exception) {
 Exception throwableException = exception.getException();
 if (throwableException instanceof IllegalAccessException) {
 throw DescriptorException.illegalAccessWhileCloning(domainObject, this.getMethodName(),
this.getDescriptor(), throwableException);
 } else {
 throw DescriptorException.targetInvocationWhileCloning(domainObject, this.getMethodName(),
this.getDescriptor(), throwableException);
 }
 }
 } else {
 return PrivilegedAccessHelper.invokeMethod(this.getWorkingCopyMethod(), domainObject, new
Object[0]);
 }

 } catch (IllegalAccessException exception) {
 throw DescriptorException.illegalAccessWhileCloning(domainObject, this.getMethodName(),
this.getDescriptor(), exception);
 } catch (InvocationTargetException exception) {
 throw DescriptorException.targetInvocationWhileCloning(domainObject, this.getMethodName(),
this.getDescriptor(), exception);
 }
}

```

```

/**
 * Create a new instance, unless a workingCopyClone method is specified, then build a new instance and clone it.
 */
@Override
public Object buildWorkingCopyCloneFromRow(Record row, ObjectBuildingQuery query, Object primaryKey,
UnitOfWork uow) throws DescriptorException {
 // For now must preserve CMP code which builds heavy clones with a context.
 // Also preserve for clients who use the copy policy.
 ObjectBuilder builder = getDescriptor().getObjectBuilder();
 if (getWorkingCopyMethodName() != null) {
 Object original = builder.buildNewInstance();
 builder.buildAttributesIntoShallowObject(original, (AbstractRecord)row, query);
 return buildWorkingCopyClone(original, query.getSession());
 } else {
 return builder.buildNewInstance();
 }
}

/**
 * Return the clone method.
 */
protected Method getMethod() {
 return method;
}

/**
 * Return the clone method name.
 */
public String getMethodName() {
 return methodName;
}

/**
 * Return the workingCopyClone method.
 * This is used to clone within a unit of work.
 */
protected Method getWorkingCopyMethod() {
 return workingCopyMethod;
}

/**
 * Return the workingCopyClone method name.
 * This is used to clone within a unit of work.
 */
public String getWorkingCopyMethodName() {
 return workingCopyMethodName;
}

```

```

/**
 * Validate and build the methods.
 */
public void initialize(Session session) throws DescriptorException {
 final Class javaClass = this.getDescriptor().getJavaClass();
 try {
 // Must allow for null clone method for 9.0.4 deployment XML.
 if (this.getMethodName() != null) {
 this.setMethod(Helper.getDeclaredMethod(javaClass, this.getMethodName(), new Class[0]));
 }
 } catch (NoSuchMethodException exception) {
 session.getIntegrityChecker().handleError(DescriptorException.noSuchMethodWhileInitializingCopyPolicy(this.getMethodName(), this.getDescriptor(), exception));
 } catch (SecurityException exception) {
 session.getIntegrityChecker().handleError(DescriptorException.securityWhileInitializingCopyPolicy(this.getMethodName(), this.getDescriptor(), exception));
 }
 if (this.getWorkingCopyMethodName() != null) {
 try {
 this.setWorkingCopyMethod(Helper.getDeclaredMethod(javaClass, this.getWorkingCopyMethodName(), new Class[0]));
 } catch (NoSuchMethodException exception) {
 session.getIntegrityChecker().handleError(DescriptorException.noSuchMethodWhileInitializingCopyPolicy(this.getMethodName(), this.getDescriptor(), exception));
 } catch (SecurityException exception) {
 session.getIntegrityChecker().handleError(DescriptorException.securityWhileInitializingCopyPolicy(this.getMethodName(), this.getDescriptor(), exception));
 }
 }
}

/**
 * Set the clone method.
 */
protected void setMethod(Method method) {
 this.method = method;
}

/**
 * Set the clone method name.
 */
public void setMethodName(String methodName) {
 this.methodName = methodName;
}

/**
 * Set the workingCopyClone method.

```

```

* This is used to clone within a unit of work.
*/
protected void setWorkingCopyMethod(Method method) {
 this.workingCopyMethod = method;
}

/**
* Set the workingCopyClone method name.
* This is used to clone within a unit of work.
*/
public void setWorkingCopyMethodName(String methodName) {
 this.workingCopyMethodName = methodName;
}

/**
* Return false as a shallow clone is returned, not a new instance.
*/
public boolean buildsNewInstance() {
 return getMethodName() == null;
}

public String toString() {
 return Helper.getShortClassName(this) + "(" + this.getMethodName() + ")";
}
}

```

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</div>

<div class=Section2>  
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\*\*\*\*\*/

```

package org.eclipse.persistence.descriptors.copying;

import java.io.*;

import org.eclipse.persistence.exceptions.*;
import org.eclipse.persistence.descriptors.ClassDescriptor;
import org.eclipse.persistence.queries.ObjectBuildingQuery;
import org.eclipse.persistence.sessions.*;

/**
 * <p>Purpose: Allows customization of how an object is cloned.
 * An implementer of CopyPolicy can be set on a descriptor to provide
 * special cloning routine for how an object is cloned in a unit of work.
 *
 * By default the InstantiationCopyPolicy is used which creates a new instance of
 * the class to be copied into.
 *
 * The CloneCopyPolicy can also be used that uses a clone method in the object
 * to clone the object. When a clone method is used it avoid the requirement of having to
 * copy over each of the direct attributes.
 *
 * @see org.eclipse.persistence.descriptors.copying.CloneCopyPolicy
 * @see org.eclipse.persistence.descriptors.copying.InstantiationCopyPolicy
 */
public interface CopyPolicy extends Cloneable, Serializable {

 /**
 * Return a shallow clone of the object for usage with object copying, or unit of work backup cloning.
 */
 Object buildClone(Object object, Session session) throws DescriptorException;

 /**
 * Return a shallow clone of the object for usage with the unit of work working copy.
 */
 Object buildWorkingCopyClone(Object object, Session session) throws DescriptorException;

 /**
 * Return an instance with the primary key set from the row, used for building a working copy during a unit of
 work transactional read.
 */
 Object buildWorkingCopyCloneFromRow(Record row, ObjectBuildingQuery query, Object primaryKey,
 UnitOfWork uow) throws DescriptorException;

 /**
 * Clone the CopyPolicy.
 */
 Object clone();

```

```

/**
 * Allow for any initialization or validation required.
 */
void initialize(Session session) throws DescriptorException;

/**
 * Set the descriptor.
 */
void setDescriptor(ClassDescriptor descriptor);

/**
 * Return if this copy policy creates a new instance, vs a clone.
 */
boolean buildsNewInstance();
}
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 *****/
package org.eclipse.persistence.descriptors.copying;

import org.eclipse.persistence.exceptions.*;
import org.eclipse.persistence.internal.helper.*;
import org.eclipse.persistence.sessions.*;

/**
 * <p>Purpose: This is the default copy policy.
 *
 * It creates a copy by creating a new instance of the object and then using the
 * mappings specified for the object to populate the object.
 */
public class InstantiationCopyPolicy extends AbstractCopyPolicy {
 public InstantiationCopyPolicy() {
 super();
 }

 public Object buildClone(Object domainObject, Session session) throws DescriptorException {
 return getDescriptor().getObjectBuilder().buildNewInstance();
 }
}

```

```

public boolean buildsNewInstance() {
 return true;
}

public String toString() {
 return Helper.getShortClassName(this) + "()";
}
}
}
/*****
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*****/
package org.eclipse.persistence.descriptors.copying;

import org.eclipse.persistence.descriptors.ClassDescriptor;
import org.eclipse.persistence.exceptions.*;
import org.eclipse.persistence.sessions.*;
import org.eclipse.persistence.queries.ObjectBuildingQuery;

/**
 * <p>Purpose</p>: Allows customization of how an object is cloned.
 * This class defines common behavior that allows a subclass to be used
 * and set on a descriptor to provide a special cloning routine for how an object
 * is cloned in a unit of work.
 */
public abstract class AbstractCopyPolicy implements CopyPolicy {
 protected ClassDescriptor descriptor;

 public AbstractCopyPolicy() {
 super();
 }

 public abstract Object buildClone(Object domainObject, Session session) throws DescriptorException;

 /**
 * By default use the buildClone.
 */
 public Object buildWorkingCopyClone(Object domainObject, Session session) throws DescriptorException {
 return buildClone(domainObject, session);
 }
}

```

```

/**
 * By default create a new instance.
 */
public Object buildWorkingCopyCloneFromRow(Record row, ObjectBuildingQuery query, Object primaryKey,
UnitOfWork uow) throws DescriptorException {
 return this.descriptor.getObjectBuilder().buildNewInstance();
}

/**
 * INTERNAL:
 * Clones the CopyPolicy
 */
public Object clone() {
 try {
 // clones itself
 return super.clone();
 } catch (Exception exception) {
 }
 return null;
}

/**
 * Return the descriptor.
 */
protected ClassDescriptor getDescriptor() {
 return descriptor;
}

/**
 * Do nothing by default.
 */
public void initialize(Session session) throws DescriptorException {
 // Do nothing by default.
}

/**
 * Set the descriptor.
 */
public void setDescriptor(ClassDescriptor descriptor) {
 this.descriptor = descriptor;
}
}

```



# 1.651 wget 1.14 18.e17\_6.1

## 1.651.1 Available under license :

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Version 3, 29 June 2007

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\*

\* tcp\_window\_size.c  
\* by Mark Gates <[mgates@nlanr.net](mailto:mgates@nlanr.net)>

\*-----

\* set/getsockopt

\*----- \*/

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\*

\* `stdio.c`

\* by Mark Gates <[mgates@nlanr.net](mailto:mgates@nlanr.net)>

\* and Ajay Tirumalla <[tirumala@ncsa.uiuc.edu](mailto:tirumala@ncsa.uiuc.edu)>

\*

\* input and output numbers, converting with kilo, mega, giga

\* ----- \*/

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Upstream-Name: liblz4

Upstream-Contact: Yann Collet <Cyan4973@github.com>

Source: <https://github.com/lz4/lz4>

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