Open Source Used In HyperFlex HX Data Platform 4.5(2d)

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Earlier versions of this package were assembled by David Engel
<david@ods.com>, Stuart Lamble <lamble@yoyo.cc.monash.edu.au>, and others.

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@item
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That's all there is to it!
BEGIN{  
FS="\n";
print "/* ==> Do not modify this file!! It is created automatically";
print " by copying.awk. Modify copying.awk instead. <==" /\n"; 
print ""
print "/#include \"defs.h\"/
print "/#include \"command.h\"/
print "/#include \"gdbcmd.h\"/
print ""
print "static void show_copying_command (char *, int);" 
print ""
print "static void show_warranty_command (char *, int);" 
print ""
print "void _initialize_copying (void);" 
print ""
print "extern int immediate_quit;";
print "static void"
print "show_copying_command (char *ignore, int from_tty);" 
print "{";
print " immediate_quit++;\n";
}
NR == 1; /* [ ]*15. Disclaimer of Warranty[ ]*$/
if (0 $ =~ /\))/  
{  
printf " printf_filtered (\"\n\n\n\n);  
}
else if (0 !~ /\])/ *15. Disclaimer of Warranty[ ]*$/
{
printf " printf_filtered ("; 
for (i = 1; i < NF; i++)
printf "%%s\n", $i; 
printf "%%s\n")\n", $NF; 
}
} 
 /* [ ]*15. Disclaimer of Warranty[ ]*$/
print " immediate_quit--;";
print "]";  
printf "";  
print "static void";
print "show_warranty_command (char *ignore, int from_tty);";
print ";
print " immediate_quit++;"
}

END

print ";
print " immediate_quit--;"
print "
print "
print "void"
print ".initialize_copying (void)";
print "
print " add_cmd ("copying", no_class, show_copying_command,"
print "   \"Conditions for redistributing copies of GDB.\"");
print " &showlist);";
print " add_cmd ("warranty", no_class, show_warranty_command,"
print "   \"Various kinds of warranty you do not have.\"");
print " &showlist);";
print "
print " /* For old-timers, allow \"info copying\", etc. */"
print " add_info ("copying", show_copying_command,"
print "   \"Conditions for redistributing copies of GDB.\"");
print " add_info ("warranty", show_warranty_command,"
print "   \"Various kinds of warranty you do not have.\"");
print " \"
}

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

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

We call this license the \textit{Lesser} General Public License because it does \textit{less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers \textit{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.

\@ifx
\@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
\@end ifx
\@ifinfo
\@center GNU LESSER GENERAL PUBLIC LICENSE
\@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
\@end ifinfo
This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called ``this License''). Each licensee is addressed as ``you''.

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

The ``Library'', below, refers to any such software library or work which has been distributed under these terms. A ``work based on the Library'' means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term ``modification''.)

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

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

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

@enumerate a
@item
The modified work must itself be a software library.

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

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

@item
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.

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

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

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

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

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

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

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

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

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

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

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

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

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

@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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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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@end enumerate
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.

```
/var{one line to give the library's name and an idea of what it does.}
Copyright (C) /var{year} /var{name of author}

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.
```

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

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

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.
```
That's all there is to it!

```python
#!/usr/bin/env python

'''copyright.py

This script updates most of the files that are not already handled by copyright.sh. It must be run from the gdb/ subdirectory of the GDB source tree.

```
EXCLUSION_LIST = (
"COPYING", "COPYING.LIB", "CVS", "configure", "copying.c", "gdbarch.c",
"gdbarch.h", "fdl.texi", "gpl.texi", "gdbtk", "gdb.gdbtk", "osf-share",
"aclocal.m4", "step-line.inp", "step-line.c",
)

# Files that are too different from the rest to be processed automatically.
BY_HAND = ['../sim/ppc/psim.texinfo']

# Files for which we know that they do not have a copyright header.
# Ideally, this list should be empty (but it may not be possible to
# add a copyright header in some of them).
NO_COPYRIGHT = (  
  # Configure files. We should fix those, one day.
  "testsuite/gdb.cell/configure.ac", "testsuite/gdb.hp/configure.ac",
  "testsuite/gdb.hp/gdb.aCC/configure.ac",
  "testsuite/gdb.hp/gdb.base-hp/configure.ac",
  "testsuite/gdb.hp/gdb.compat/configure.ac",
  "testsuite/gdb.hp/gdb.defects/configure.ac",
  "testsuite/gdb.hp/gdb.objdbg/configure.ac",
  "testsuite/gdb.stabs/configure.ac",
  "./sim/arm/configure.ac", "./sim/avr/configure.ac",
  "./sim/common/configure.ac", "./sim/configure.ac",
  "./sim/cr16/configure.ac", "./sim/cris/configure.ac",
  "./sim/d10v/configure.ac", "./sim/erc32/configure.ac",
  "./sim/frv/configure.ac", "./sim/h8300/configure.ac",
  "./sim/igen/configure.ac", "./sim/iq2000/configure.ac",
  "./sim/m32r/configure.ac", "./sim/m32r/configure.ac",
  "./sim/m68hc11/configure.ac", "./sim/mcore/configure.ac",
  "./sim/microblaze/configure.ac", "./sim/mips/configure.ac",
  "./sim/mn10300/configure.ac", "./sim/moxie/configure.ac",
  "./sim/ppc/configure.ac", "./sim/sh/configure.ac",
  "./sim/sh64/configure.ac", "./sim/testsuite/configure.ac",
  "./sim/testsuite/d10v-elf/configure.ac",
  "./sim/testsuite/frv-elf/configure.ac",
  "./sim/testsuite/m32r-elf/configure.ac",
  "./sim/testsuite/mips64e-elf/configure.ac", "./sim/v850/configure.ac",
)

# Assembly files. It's not certain that we can add a copyright
# header in a way that works for all platforms supported by the
# testcase...
"testsuite/gdb.arch/pa-nullify.s", "testsuite/gdb.arch/pa64-nullify.s",
"testsuite/gdb.asm/asmsrc1.s", "testsuite/gdb.asm/asmsrc2.s",
"testsuite/gdb.disasm/am33.s", "testsuite/gdb.disasm/h8300s.s",
"testsuite/gdb.disasm/hppa.s", "testsuite/gdb.disasm/mn10200.s",
"testsuite/gdb.disasm/mn10300.s", "testsuite/gdb.disasm/sh3.s",
"testsuite/gdb.disasm/t01_mov.s", "testsuite/gdb.disasm/t02_mova.s",
"testsuite/gdb.disasm/t03_add.s", "testsuite/gdb.disasm/t04_sub.s",
"testsuite/gdb.disasm/t05_cmp.s", "testsuite/gdb.disasm/t06_ari2.s",
"testsuite/gdb.disasm/t07_ari3.s", "testsuite/gdb.disasm/t08_or.s",
"testsuite/gdb.disasm/t09_xor.s", "testsuite/gdb.disasm/t10_and.s",
"testsuite/gdb.disasm/t11_logs.s", "testsuite/gdb.disasm/t12_bit.s",
"testsuite/gdb.disasm/t13_or.s", "testsuite/gdb.hp/gdb.base-hp/reg-pa64.s",
"testsuite/gdb.hp/gdb.base-hp/reg.s",
"../sim/testsuite/d10v-elf/exit47.s",
"../sim/testsuite/d10v-elf/hello.s",
"../sim/testsuite/d10v-elf/loop.s",
"../sim/testsuite/d10v-elf/ae-ld-d.s",
"../sim/testsuite/d10v-elf/ae-ld-i.s",
"../sim/testsuite/d10v-elf/ae-ld-id.s",
"../sim/testsuite/d10v-elf/ae-ld-im.s",
"../sim/testsuite/d10v-elf/ae-ld-ip.s",
"../sim/testsuite/d10v-elf/ae-ld2w-d.s",
"../sim/testsuite/d10v-elf/ae-ld2w-i.s",
"../sim/testsuite/d10v-elf/ae-ld2w-id.s",
"../sim/testsuite/d10v-elf/ae-ld2w-im.s",
"../sim/testsuite/d10v-elf/ae-ld2w-ip.s",
"../sim/testsuite/d10v-elf/ae-st-d.s",
"../sim/testsuite/d10v-elf/ae-st-i.s",
"../sim/testsuite/d10v-elf/ae-st-id.s",
"../sim/testsuite/d10v-elf/ae-st-im.s",
"../sim/testsuite/d10v-elf/ae-st-ip.s",
"../sim/testsuite/d10v-elf/ae-st-is.s",
"../sim/testsuite/d10v-elf/ae-st2w-d.s",
"../sim/testsuite/d10v-elf/ae-st2w-i.s",
"../sim/testsuite/d10v-elf/ae-st2w-id.s",
"../sim/testsuite/d10v-elf/ae-st2w-im.s",
"../sim/testsuite/d10v-elf/ae-st2w-ip.s",
"../sim/testsuite/d10v-elf/ae-st2w-is.s",
"../sim/testsuite/d10v-elf/dbt.s",
"../sim/testsuite/d10v-elf/ld-st.s",
"../sim/testsuite/d10v-elf/mac.s",
"../sim/testsuite/d10v-elf/mod-ld-pre.s",
"../sim/testsuite/d10v-elf/msbu.s",
"../sim/testsuite/d10v-elf/mulxu.s",
"../sim/testsuite/d10v-elf/mvtac.s",
"../sim/testsuite/d10v-elf/mvtc.s",
"../sim/testsuite/d10v-elf/rac.s",
"../sim/testsuite/d10v-elf/rachi.s",
"../sim/testsuite/d10v-elf/rdt.s",
"../sim/testsuite/d10v-elf/rep.s",
"../sim/testsuite/d10v-elf/rie-xx.s",
"../sim/testsuite/d10v-elf/rtc.s",
"../sim/testsuite/d10v-elf/sac.s",
"../sim/testsuite/d10v-elf/sachi.s",
"../sim/testsuite/d10v-elf/sadd.s",
"../sim/testsuite/d10v-elf/slae.s", 

"./sim/testsuite/d10v-elf/t-sp.s",
"./sim/testsuite/d10v-elf/t-sub.s",
"./sim/testsuite/d10v-elf/t-sub2w.s",
"./sim/testsuite/d10v-elf/t-subi.s",
"./sim/testsuite/d10v-elf/t-trap.s",
"./sim/testsuite/frv-elf/cache.s",
"./sim/testsuite/frv-elf/exit47.s",
"./sim/testsuite/frv-elf/grloop.s",
"./sim/testsuite/frv-elf/hello.s",
"./sim/testsuite/frv-elf/loop.s",
"./sim/testsuite/m32r-elf/exit47.s",
"./sim/testsuite/m32r-elf/hello.s",
"./sim/testsuite/m32r-elf/loop.s",
"./sim/testsuite/sim/cris/hw/rv-n-cris/quit.s",
"./sim/testsuite/sim/h8300/addb.s",
"./sim/testsuite/sim/h8300/addl.s",
"./sim/testsuite/sim/h8300/adds.s",
"./sim/testsuite/sim/h8300/addw.s",
"./sim/testsuite/sim/h8300/addx.s",
"./sim/testsuite/sim/h8300/andb.s",
"./sim/testsuite/sim/h8300/andl.s",
"./sim/testsuite/sim/h8300/band.s",
"./sim/testsuite/sim/h8300/bfld.s",
"./sim/testsuite/sim/h8300/biand.s",
"./sim/testsuite/sim/h8300/bra.s",
"./sim/testsuite/sim/h8300/brabc.s",
"./sim/testsuite/sim/h8300/bset.s",
"./sim/testsuite/sim/h8300/cmbb.s",
"./sim/testsuite/sim/h8300/cmpl.s",
"./sim/testsuite/sim/h8300/cmpw.s",
"./sim/testsuite/sim/h8300/daa.s",
"./sim/testsuite/sim/h8300/das.s",
"./sim/testsuite/sim/h8300/dec.s",
"./sim/testsuite/sim/h8300/div.s",
"./sim/testsuite/sim/h8300/movw.s",
"./sim/testsuite/sim/h8300/movw.s",
"./sim/testsuite/sim/h8300/movw.s",
"./sim/testsuite/sim/h8300/movmd.s",
"./sim/testsuite/sim/h8300/movmd.s",
"./sim/testsuite/sim/h8300/movmd.s",
"./sim/testsuite/sim/h8300/movmd.s",
"./sim/testsuite/sim/h8300/movmd.s",
"./sim/testsuite/sim/h8300/movmd.s",
"./sim/testsuite/sim/h8300/movmd.s",
"./sim/testsuite/sim/h8300/movmd.s"
"../sim/testsuite/sim/h8300/mul.s",
"../sim/testsuite/sim/h8300/neg.s",
"../sim/testsuite/sim/h8300/nop.s",
"../sim/testsuite/sim/h8300/not.s",
"../sim/testsuite/sim/h8300/orb.s",
"../sim/testsuite/sim/h8300/orl.s",
"../sim/testsuite/sim/h8300/orw.s",
"../sim/testsuite/sim/h8300/rotl.s",
"../sim/testsuite/sim/h8300/rotr.s",
"../sim/testsuite/sim/h8300/rotxl.s",
"../sim/testsuite/sim/h8300/rotxr.s",
"../sim/testsuite/sim/h8300/shal.s",
"../sim/testsuite/sim/h8300/shar.s",
"../sim/testsuite/sim/h8300/shll.s",
"../sim/testsuite/sim/h8300/shlr.s",
"../sim/testsuite/sim/h8300/stack.s",
"../sim/testsuite/sim/h8300/stc.s",
"../sim/testsuite/sim/h8300/subb.s",
"../sim/testsuite/sim/h8300/subl.s",
"../sim/testsuite/sim/h8300/subs.s",
"../sim/testsuite/sim/h8300/subw.s",
"../sim/testsuite/sim/h8300/tas.s",
"../sim/testsuite/sim/mips/fpu64-ps-sb1.s",
"../sim/testsuite/sim/mips/fpu64-ps.s",
"../sim/testsuite/sim/mips/hilo-hazard-1.s",
"../sim/testsuite/sim/mips/hilo-hazard-2.s",
"../sim/testsuite/sim/mips/hilo-hazard-3.s",
"../sim/testsuite/sim/mips/mdmx-ob-sb1.s",
"../sim/testsuite/sim/mips/mdmx-ob.s",
"../sim/testsuite/sim/mips/mips32-dsp.s",
"../sim/testsuite/sim/mips/mips32-dsp2.s",
"../sim/testsuite/sim/mips/sanity.s",
"../sim/testsuite/sim/sh/add.s",
"../sim/testsuite/sim/sh/and.s",
"../sim/testsuite/sim/sh/bandor.s",
"../sim/testsuite/sim/sh/bandornot.s",
"../sim/testsuite/sim/sh/bclr.s",
"../sim/testsuite/sim/sh/bld.s",
"../sim/testsuite/sim/sh/bldnot.s",
"../sim/testsuite/sim/sh/bset.s",
"../sim/testsuite/sim/sh/bst.s",
"../sim/testsuite/sim/sh/bxor.s",
"../sim/testsuite/sim/sh/clip.s",
"../sim/testsuite/sim/sh/div.s"
"../sim/testsuite/sim/sh/pshar.s",
"../sim/testsuite/sim/sh/pshfi.s",
"../sim/testsuite/sim/sh/pshlr.s",
"../sim/testsuite/sim/sh/psub.s",
"../sim/testsuite/sim/sh/pswap.s",
"../sim/testsuite/sim/sh/pushpop.s",
"../sim/testsuite/sim/sh/resbank.s",
"../sim/testsuite/sim/sh/sett.s",
"../sim/testsuite/sim/sh/shl.s",
"../sim/testsuite/sim/sh/shl16.s",
"../sim/testsuite/sim/sh/shl2.s",
"../sim/testsuite/sim/sh/shl8.s",
"../sim/testsuite/sim/sh/shl.r.s",
"../sim/testsuite/sim/sh/shl16.s",
"../sim/testsuite/sim/sh/shl2.s",
"../sim/testsuite/sim/sh/shl8.s",
"../sim/testsuite/sim/sh/shl.s",
"../sim/testsuite/sim/sh/shl16.s",
"../sim/testsuite/sim/sh/shl2.s",
"../sim/testsuite/sim/sh/shl8.s",
"../sim/testsuite/sim/sh/swap.s",
"../sim/testsuite/sim/sh64/misc/fr-dr.s",

#.inc files. These are usually assembly or C files...
"testsuite/gdb.asm/alpha.inc",
"testsuite/gdb.asm/arm.inc",
"testsuite/gdb.asm/common.inc",
"testsuite/gdb.asm/empty.inc",
"testsuite/gdb.asm/frv.inc",
"testsuite/gdb.asm/h8300.inc",
"testsuite/gdb.asm/i386.inc",
"testsuite/gdb.asm/ia64.inc",
"testsuite/gdb.asm/iq2000.inc",
"testsuite/gdb.asm/m32c.inc",
"testsuite/gdb.asm/m32r-linux.inc",
"testsuite/gdb.asm/m32r.inc",
"testsuite/gdb.asm/m68hc11.inc",
"testsuite/gdb.asm/m68k.inc",
"testsuite/gdb.asm/mips.inc",
"testsuite/gdb.asm/netbsd.inc",
"testsuite/gdb.asm/openbsd.inc",
"testsuite/gdb.asm/pa.inc",
"testsuite/gdb.asm/pa64.inc",
"testsuite/gdb.asm/powerpc.inc",
"testsuite/gdb.asm/powerpc64.inc",
"testsuite/gdb.asm/s390.inc",
"testsuite/gdb.asm/s390x.inc",
"testsuite/gdb.asm/sh.inc",
"testsuite/gdb.asm/sparc.inc",
"testsuite/gdb.asm/sparc64.inc",
"testsuite/gdb.asm/spu.inc",
"testsuite/gdb.asm/v850.inc",
"testsuite/gdb.asm/x86_64.inc"
"testsuite/gdb.asm/xstormy16.inc",
"../sim/testsuite/sim/arm/iwmxt/testutils.inc",
"../sim/testsuite/sim/arm/testutils.inc",
"../sim/testsuite/sim/arm/thumb/testutils.inc",
"../sim/testsuite/sim/arm/xscale/testutils.inc",
"../sim/testsuite/sim/cr16/testutils.inc",
"../sim/testsuite/sim/cris/asm/testutils.inc",
"../sim/testsuite/sim/cris/hw/rv-n-cris/testutils.inc",
"../sim/testsuite/sim/fr30/testutils.inc",
"../sim/testsuite/sim/frv/testutils.inc",
"../sim/testsuite/sim/h8300/testutils.inc",
"../sim/testsuite/sim/m32r/testutils.inc",
"../sim/testsuite/sim/sh/testutils.inc",
"../sim/testsuite/sim/sh64/compact/testutils.inc",
"../sim/testsuite/sim/sh64/media/testutils.inc",
"../sim/testsuite/sim/v850/testutils.inc",
)

# A mapping between file extensions to their associated Comment object.
# This dictionary also contains a number of exceptions, based on
# filename.
COMMENT_MAP = \
{".1" : Comment(start=r'."'),
 "".ac" : Comment(start="dnl", start2="#"),
 "".ads" : ADA_COMMENT,
 "".adb" : ADACOMMENT,
 "".f" : Comment(start="c"),
 "".f90" : Comment(start="!"),
 "".gpr" : ADA_COMMENT,
 "".inc" : Comment(start="#", start2=";"),
 "".s" : Comment(start="!"),
 "".tex" : Comment(start="%!"),
 "".texi" : Comment(start="@c"),
 "".texinfo" : Comment(start="@c"),

# Files that use a different way of including the copyright
# header...
"ada-operator.inc" : Comment(start="/\", stop="/"),
"gdbint.texinfo" : Comment(start='@copying', stop='@end copying'),
"annotate.texinfo" : Comment(start='@copying', stop='@end copying',
 max_lines=50),
"stabs.texinfo" : Comment(start='@copying', stop='@end copying'),
}

class NotFound(Exception):
    pass

class AlreadyDone(Exception):
    pass
def process_header(src, dst, cdescr):
    '''Read from SRC for up to CDESCR.MAX_LINES until we find a copyright
    notice. If found, then write the entire file, with the copyright
    noticed updated with the current year added.

    Raises NotFound if the copyright notice could not be found or has
    some inconsistencies.

    Raises AlreadyDone if the copyright notice already includes the current
    year.
    '''
    line_count = 0
    # The start-of-comment marker used for this file. Only really useful
    # in the case where comments ends at the end of the line, as this
    # allows us to know which comment marker to use when breaking long
    # lines (in the cases where there are more than one.
    cdescr_start = '

    while True:
        # If we still haven't found a copyright line within a certain
        # number of lines, then give up.
        if line_count > cdescr.max_lines:
            raise NotFound("start of Copyright not found")

        line = src.readline()
        line_count += 1
        if not line:
            raise NotFound("start of Copyright not found (EOF)")

        # Is this a copyright line? If not, then no transformation is
        # needed. Write it as is, and continue.
        if not re.search(r"Copyright\b.*\b(199\d|20\d\d)\b", line):
            dst.write(line)
            continue

        # If a start-of-comment marker is needed for every line, try to
        # figure out which one it is that is being used in this file (most
        # files only accept one, in which case it's easy - but some accept
        # two or more...).
        if cdescr.stop is None:
            stripped_line = line.lstrip()
            if stripped_line.startswith(cdescr.start):
                cdescr_start = cdescr.start
            elif (cdescr.start2 is not None
                  and stripped_line.startswith(cdescr.start2)):
                cdescr_start = cdescr.start2
elif cdescr.start in stripped_line:
    cdescr_start = cdescr.start
elif (cdescr.start2 is not None
    and cdescr.start2 in stripped_line):
    cdescr_start = cdescr.start2
else:
    # This can't be a line with a comment, so not the copyright
    # line we were looking for. Ignore.
    continue

comment = line
break

while not re.search(r"Free\s+Software\s+Foundation", comment):
    line = src.readline()
    line_count += 1
if not line:
    raise NotFound("Copyright owner not found (EOF)")

if cdescr.stop is None:
    # Expect a new comment marker at the start of each line
    line = line.lstrip()
    if not line.startswith(cdescr_start):
        raise NotFound("Copyright owner not found 
        "(end of comment)")
    comment += " " + line[len(cdescr_start):]
else:
    if cdescr.stop in comment:
        raise NotFound("Copyright owner not found 
        "(end of comment)")
    comment += line

# Normalize a bit the copyright string (we preserve the string
# up until "Copyright", in order to help preserve any original
# alignment.
(before, after) = comment.split("Copyright", 1)
after = after.replace("\n", " ")
after = re.sub("\s+", " ", after)
after = after.rstrip()

# If the copyright year has already been added, the nothing else
# to do.
if THIS_YEAR in after:
    raise AlreadyDone

m = re.match("(.*[0-9]+).+", after)
if m is None:
    raise NotFound("Internal error - cannot split copyright line: ")
"%s" % comment)

# Reconstruct the comment line
comment = before + "Copyright" + m.group(1) + ', %s' % THIS_YEAR
owner_part = m.group(2).lstrip()

# Max comment len...
max_len = 76

# If we have to break the copyright line into multiple lines,
# we want to align all the lines on the "Copyright" keyword.
# Create a small "indent" string that we can use for that.
if cdescr.stop is None:
    # The comment marker is needed on every line, so put it at the
    # start of our "indent" string.
    indent = cdescr_start + ' ' * (len(before) - len(cdescr_start))
else:
    indent = ' ' * len(before)

# If the line is too long...
while len(comment) > max_len:
    # Split the line at the first space before max_len.
    space_index = comment[0:max_len].rfind(' ')
    if space_index < 0:  # No space in the first max_len characters???
        # Split at the first space, then...
        space_index = comment.find(' ')
    if space_index < 0:
        # Still no space found. This is extremely unlikely, but
        # just pretend there is one at the end of the string.
        space_index = len(comment)

    # Write the first part of the string up until the space
    # we selected to break our line.
    dst.write(comment[:space_index] + '
')

    # Strip the part of comment that we have finished printing.
    if space_index < len(comment):
        comment = comment[space_index + 1:]
    else:
        comment = ""

    # Prepend the "indent" string to make sure that we remain
    # aligned on the "Copyright" word.
    comment = indent + comment

# And finally, write the rest of the last line... We want to write
# "Free Software Foundation, Inc" on the same line, so handle this
# with extra care.
dst.write(comment)
if len(comment) + 1 + len(owner_part) > max_len:
    dst.write('n' + indent)
else:
    dst.write('n')
dst.write(owner_part + 'n')

def comment_for_filename(filename):
    """Return the Comment object that best describes the given file.
    This a smart lookup of the COMMENT_MAP dictionary where we check
    for filename-based exceptions first, before looking up the comment
    by filename extension. """
    # First, consult the COMMENT_MAP using the filename, in case this
    # file needs special treatment.
    basename = os.path.basename(filename)
    if basename in COMMENT_MAP:
        return COMMENT_MAP[basename]
    # Not a special file. Check the file extension.
    ext = os.path.splitext(filename)[1]
    if ext in COMMENT_MAP:
        return COMMENT_MAP[ext]
    # Not a know extension either, return None.
    return None

def process_file(filename):
    """Processes the given file.
    """
    cdescr = comment_for_filename(filename)
    if cdescr is None:
        # Either no filename extension, or not an extension that we
        # know how to handle.
        return

dst_filename = filename + '.new'
src = open(filename)
dst = open(dst_filename, 'w')
try:
    process_header(src, dst, cdescr)
except AlreadyDone:
    print "+++ Already up to date: `%s'." % filename
dst.close()
os.unlink(dst_filename)
if filename in NO_COPYRIGHT:
    # We expect the search for a copyright header to fail, and
    # yet we found one...
    print "Warning: `%s' should not be in NO_COPYRIGHT" % filename
    return
except NotFound as inst:
dst.close()

os.unlink(dst_filename)

if not filename in NO_COPYRIGHT:
    print "*** `\033[31m\texttt{\%s}\033[0m`: %s" % (filename, inst)
    return

if filename in NO_COPYRIGHT:
    # We expect the search for a copyright header to fail, and
    # yet we found one...
    print "Warning: `%s' should not be in NO_COPYRIGHT" % filename

for line in src:
    dst.write(line)

src.close()

dst.close()

os.rename(dst_filename, filename)

if __name__ == "__main__":
    if not os.path.isfile("doc/gdb.texinfo"):
        print "Error: This script must be called from the gdb directory."

for gdb_dir in ('.', '../sim', '../include/gdb'):
    for root, dirs, files in os.walk(gdb_dir):
        for filename in files:
            fullpath = os.path.join(root, filename)
            if fullpath.startswith('./'):
                fullpath = fullpath[2:]
            if filename not in EXCLUSION_LIST and fullpath not in BY_HAND:
                # Paths that start with `./' are ugly, so strip that.
                # This also allows us to omit them in the NO_COPYRIGHT
                # list...
                process_file(fullpath)

print

print "\033[32mREMINDER: The following files must be updated by hand.\" \
"\033[0m"

for filename in BY_HAND:
    print " \", filename

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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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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.

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) 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
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That's all there is to it!

1.2 python-funcsigs 0.4-2
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1.3 kazoo 2.7.0

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1.4 libsemanage 2.3-1build3

1.4.1 Available under license:

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1.5 acl 2.2.52-3

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1.6 python 3.5.2 2ubuntu0~16.04.13

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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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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

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1.10 vcversioner 2.16.0.0
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Found in path(s):
* /opt/cola/permits/1156180156_1619139167.92/0/vcversioner-2-16-0-0-1-tar-gz/vcversioner-2.16.0.0/vcversioner.py
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Metadata-Version: 1.1
Name: vcversioner
Version: 2.16.0.0
Summary: Use version control tags to discover version numbers
Home-page: https://github.com/habnabit/vcversioner
Author: Aaron Gallagher
Author-email: _@habnab.it
License: ISC
Description: .. image:: https://travis-ci.org/habnabit/vcversioner.png
vcversioner

`Elevator pitch`: you can write a `setup.py` with no version information specified, and vcversioner will find a recent, properly-formatted VCS tag and extract a version from it.

It's much more convenient to be able to use your version control system's tagging mechanism to derive a version number than to have to duplicate that information all over the place. I eventually ended up copy-pasting the same code into a couple different `setup.py` files just to avoid duplicating version information. But, copy-pasting is dumb and unit testing `setup.py` files is hard. This code got factored out into vcversioner.

Basic usage
-----------

vcversioner installs itself as a setuptools hook, which makes its use exceedingly simple::

   from setuptools import setup
   setup(
       # [...]
       setup_requires=['vcversioner'],
       vcversioner={},
   )

The presence of a `vcversioner` argument automagically activates vcversioner and updates the project's version. The parameter to the `vcversioner` argument can also be a dict of keyword arguments which `find_version` will be called with.

To allow tarballs to be distributed without requiring a `.git` (or `.hg`, etc.) directory, vcversioner will also write out a file named (by default) `version.txt`. Then, if there is no VCS program or the program is unable to find any version information, vcversioner will read version information from the `version.txt` file. However, this file needs to be included in a distributed tarball, so the following line should be added to `MANIFEST.in`::

   include version.txt

This isn't necessary if `setup.py` will always be run from a checkout, but otherwise is essential for vcversioner to know what version to use.
The name "version.txt" also can be changed by specifying the "version_file" parameter. For example:

```python
from setuptools import setup

setup(
    setup_requires=['vcversioner'],
    vcversioner=
    {'version_file': 'custom_version.txt'},
)
```

For compatibility with `semantic versioning`, `vcversioner` will strip leading "v"s from version tags. That is, the tag "v1.0" will be treated as if it was "1.0".

Other prefixes can be specified to be stripped by using the "strip_prefix" argument to vcversioner. For compatibility with "git-dch", one could specify the "strip_prefix" as "debian/".

Non-hook usage
---------------

It's not necessary to depend on vcversioner; while `pip` will take care of dependencies automatically, sometimes having a self-contained project is simpler. vcversioner is a single file which is easy to add to a project. Simply copy the entire `vcversioner.py` file adjacent to the existing `setup.py` file and update the usage slightly:

```python
from setuptools import setup
import vcversioner

setup(  
    # [...]  
    version=vcversioner.find_version().version,  
)
```

This is necessary because the `vcversioner` distutils hook won't be available.

Version modules
---------------

`setup.py` isn't the only place that version information gets duplicated. By generating a version module, the `__init__.py` file of a package can import
version information. For example, with a package named ``spam``:

    from setuptools import setup
    setup(
        # [...]  
        setup_requires=['vcversioner'],
        vcversioner={
            'version_module_paths': ['spam/_version.py'],
        },
    )

This will generate a ``spam/_version.py`` file that defines ``__version__`` and ``__revision__``. Then, in ``spam/__init__.py``:

    from spam._version import __version__, __revision__

Since this acts like (and *is*) a regular python module, changing
``MANIFEST.in`` is not required.

Customizing VCS commands
-------------------------

vcversioner by default tries to detect which VCS is being used and picks a
command to run based on that. For git, that is ``git --git-dir %(root)s/.git
describe --tags --long``. For hg, that is ``hg log -R %(root)s -r . --template
'latesttag-{latesttagdistance}-hg{node|short}''.

Any command should output a string that describes the current commit in the
format ``1.0-0-gdeadbeef``. Specifically, that is ``<version number>-<number of
commits between the current commit and the version tagged commit>-<revision>``.
The revision should have a VCS-specific prefix, e.g. ``g`` for git and ``hg``
for hg.

However, sometimes this isn't sufficient. If someone wanted to only use
annotated tags, the git command could be amended like so:

    from setuptools import setup
    setup(
        # [...]  
        setup_requires=['vcversioner'],
        vcversioner={
            'vcs_args': ['git', 'describe', '--long'],
        },
    )
The `vcs_args` parameter must always be a list of strings, which will not be interpreted by the shell. This is the same as what `subprocess.Popen` expects.

This argument used to be spelled `git_args` until support for multiple VCS systems was added.

Development versions
----------------------

vcversioner can also automatically make a version that corresponds to a commit that isn't itself tagged. Following `PEP 386`, this is done by adding a `.post` suffix to the version specified by a tag on an earlier commit. For example, if the current commit is three revisions past the `1.0` tag, the computed version will be `1.0.post3`.

This behavior can be disabled by setting the `include_dev_version` parameter to `False`. In that case, the aforementioned untagged commit's version would be just `1.0`.

Since hg requires a commit to make a tag, there's a parameter `decrement_dev_version` to subtract one from the number of commits after the most recent tag. If the VCS used is detected to be hg (i.e. the revision starts with `hg`) and `decrement_dev_version` is not specified as `False`, `decrement_dev_version` will be automatically set to `True`.

Project roots
-------------

In order to prevent contamination from other source repositories, vcversioner in the 1.x version series will only look in the project root directory for repositories. The project root defaults to the current working directory, which is often the case when running `setup.py`. This can be changed by specifying the `root` parameter. Someone concerned with being able to run `setup.py` from directories other than the directory containing `setup.py` should determine the project root from `__file__` in `setup.py`:

```python
from setuptools import setup
import os
setup(
    # [...]  
    setup_requires=['vcversioner'],
    vcversioner={
        'root': os.path.dirname(os.path.abspath(__file__)),
    },
)```
To get the same behavior in the 0.x version series, ``vcs_args`` can be set to include the ``--git-dir`` flag::

```python
from setuptools import setup

setup(
    # [...]
    setup_requires=['vcversioner'],
    vcversioner={
        vcs_args=['git', '--git-dir', '%(root)s/.git', 'describe',
                  '--tags', '--long'],
    },
)
```

By default, ``version.txt`` is also read from the project root.

Substitutions
~~~~~~~~~~~~~~

As seen above, *root*, *version_file*, and *vcs_args* each support some substitutions:

``%(root)s``
The value provided for *root*. This is not available for the *root* parameter itself.

``%(pwd)s``
The current working directory.

``/`` will automatically be translated into the correct path separator for the current platform, such as ``:`` or ``\``.

Sphinx documentation
----------------------

`Sphinx` documentation is yet another place where version numbers get duplicated. Fortunately, since sphinx configuration is python code, vcversioner can be used there too. Assuming vcversioner is installed system-wide, this is quite easy. Since Sphinx is typically run with the current working directory as ``<your project root>/docs``, it's necessary to tell vcversioner where the project root is. Simply change your ``conf.py`` to include::

```python
import vcversioner
version = release = vcversioner.find_version(root='..').version
```
This assumes that your project root is the parent directory of the current working directory. A slightly longer version which is a little more robust would be:

```python
import vcversioner, os
version = release = vcversioner.find_version(
    root=os.path.dirname(os.path.dirname(os.path.abspath(__file__)))).version
```

This version is more robust because it finds the project root not relative to the current working directory but instead relative to the `conf.py` file.

If vcversioner is bundled with your project instead of relying on it being installed, you might have to add the following to your `conf.py` before `import vcversioner`:

```python
import sys, os
sys.path.insert(0, os.path.abspath('..'))
```

This line, or something with the same effect, is sometimes already present when using the sphinx `autodoc` extension.

Read the Docs
~~~~~~~~~~~~~~

Using vcversioner is even possible when building documentation on `Read the Docs`_. If vcversioner is bundled with your project, nothing further needs to be done. Otherwise, you need to tell Read the Docs to install vcversioner before it builds the documentation. This means using a `requirements.txt` file.

If your project is already set up to install dependencies with a `requirements.txt` file, add `vcversioner` to it. Otherwise, create a `requirements.txt` file. Assuming your documentation is in a `docs` subdirectory of the main project directory, create ``docs/requirements.txt`` containing a `vcversioner` line.

Then, make the following changes to your project's configuration: (Project configuration is edited at e.g., https://readthedocs.org/dashboard/vcversioner/edit/)

- Check the checkbox under **Use virtualenv**.
- If there was no `requirements.txt` previously, set the **Requirements file** to the newly-created one, e.g. `docs/requirements.txt`.

1.11 cxf-rt-bindings-xml 3.1.10

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AES in libhcrypto

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@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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Richard Outerbridge

DES core in libhcrypto

D3DES (V5.09) -

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Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau,
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1.19 jersey-server 2.21

1.20 zlib 1.2.11

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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1.25 jersey-test-framework-core 2.22.2

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

* Based on libdl (dlfcn.c/dlfcn.h) which is
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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From network_io/unix/inet_ntop.c, network_io/unix/inet_ntoh.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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1.28 linux-kernel 4.15.0-64.73~16.04.1

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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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1.32 powermock-module-junit4-common 1.7.4

1.33 grub2 2.02~beta2-36ubuntu3.12

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1.34 jmespath 0.9.3

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1.36 org.jacoco.agent.rt 0.7.7.201606060606

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1.37 json-c 0.11-4ubuntu2.6

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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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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,
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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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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

That's all there is to it!

1.43 test 1.0

1.43.1 Available under license:

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

Metadata-Version: 1.3
Name: test
Version: 1.0
Summary: Test module
Home-page: http://test.example.com/
Author: Paul Moore
Author-email: test@example.com
License: MIT License
Download-URL: http://example.com/test
Description: UNKNOWN
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Information Technology
Classifier: License :: OSI Approved :: MIT License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 3

Found in path(s):
* /opt/cola/permits/1016057324_1610429998.88/0/test-1-0-dist-info.zip/inputdir/packages_extracted/wheel/128/test-1.0.dist-info/METADATA
1.44 hdrhistogram 2.1.11

1.45 p11-kit 0.23.2-5~ubuntu16.04.2

1.45.1 Available under license:
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1.46 gir1.2-gdk.pixbuf-2.0 2.32.2

1.46.1 Available under license:
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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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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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   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.

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

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

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

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1.47 slf4j 1.6.1

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    ## glass fish URL is now invalid, use a fixed one
    #if ($url == "https://glassfish.dev.java.net/public/CDDLv1.0.html")
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  </licenses>
</project>

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1.65 jakarta-ws-rs-api 2.1.6

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1.72 jsch 0.1.55

1.73 python-whisper 0.9.15 1

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Metadata-Version: 1.0
Name: whisper
Version: 0.9.15
Summary: Fixed size round-robin style database
Home-page: http://graphite-project.github.com/
Author: Chris Davis
Author-email: chrismd@gmail.com
License: Apache Software License 2.0
Description: UNKNOWN
Platform: UNKNOWN

Found in path(s):
* /opt/cola/permits/1013987428_1626772426.4/0/python-whisper-0-9-15-orig-1-tar-gz/whisper-0.9.15/PKG-INFO
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* /opt/cola/permits/1013987428_1626772426.4/0/python-whisper-0-9-15-orig-1-tar-gz/whisper-0.9.15/whisper.py

1.74 retrying 1.3.3
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1.75 jjwt 0.6.0

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1.76 patch 2.7.5 1

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1.77 rename 0.20-4

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=head1 NAME

File::Rename - Perl extension for renaming multiple files

=head1 SYNOPSIS

use File::Rename qw(rename);# hide CORE::rename
rename @ARGV, sub { s/\.pl\z/.pm/ }, 1;

use File::Rename;
File::Rename::rename @ARGV, '$_ = lc';
=head1 DESCRIPTION

=over 4

=item C<rename( FILES, CODE [, VERBOSE])>

rename FILES using CODE,
if FILES is empty read list of files from stdin

=item C<rename_files( CODE, VERBOSE, FILES)>

rename FILES using CODE

=item C<rename_list( CODE, VERBOSE, HANDLE [, FILENAME])>

rename a list of file read from HANDLE, using CODE

=back

=head2 OPTIONS

=over 8

=item FILES

List of files to be renamed,
for C<rename> must be an array

=item CODE

Subroutine to change file names,
for C<rename> can be a string,
otherside a code reference

=item VERBOSE

Flag for printing names of files successfully renamed,
optional for C<rename>

=item HANDLE

Filehandle to read file names to be renames

=item FILENAME (Optional)

Name of file that HANDLE reads from

=back
Either CODE or VERBOSE can be a HASH of options.

If CODE is a HASH, VERBOSE is ignored and CODE is supplied by the B<_code> key.

Other options are

=over 16

=item B<verbose>

As VERBOSE above, provided by B<-v>.

=item B<no_action>

Print names of files to be renamed, but do not rename (i.e. take no action), provided by B<-n>.

=item B<over_write>

Allow files to be over-written by the renaming, provided by B<-f>.

=item B<show_help>

Print help, provided by B<-h>.

=item B<show_manual>

Print manual page, provided by B<-m>.

=item B<show_version>

Print version number, provided by B<-V>.

=back

=head2 EXPORT

None by default.

=head1 ENVIRONMENT

No environment variables are used.

=head1 SEE ALSO
mv(1), perl(1), rename(1)

=head1 AUTHOR

Robin Barker <RMBarker@cpan.org>

=head1 Acknowledgements

Based on code from Larry Wall.

Options B<-e>, B<-f>, B<-n> suggested
by more recent code written by Aristotle Pagaltzis.

=head1 DIAGNOSTICS

Errors from the code argument are not trapped.

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=cut

Found in path(s):
* /opt/cola/permits/1136205553_1613708317.37/0/rename-0-20-orig-1-tar-gz/File-Rename-0.20/lib/File/Rename.pm
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---
abstract: 'Perl extension for renaming multiple files'
author:
- 'Robin Barker <RMBarker@cpan.org>'
build_requires:
File::Temp: 0
Test::More: 0
configure_requires:
Module::Build: 0.38
dynamic_config: 1
generated_by: 'Module::Build version 0.4005, CPAN::Meta::Converter version 2.112621'
license: perl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
File-Rename provides an implementation of Larry Wall's eg/rename command. All I have done is add some error checking and (more recently) add the File Rename.pm module.

An earlier version of the script is out in the Internet and is included with some linuxes, and the original eg/rename is not included in the Perl distribution, so I have put this up on CPAN.

A revised version of the earlier script is now on the Internet, which includes more options. This script, distinguished by "Getopt::Long::Configure('bundling')", was not written by me; I think the author is Aristotle Pagaltzis. Version 0.10 of this distribution has similar options to the revised script.

For Windows, the script is called file-rename to avoid clashes with existing rename command.

INSTALLATION

To install this module type the following:
perl Makefile.PL
make
make test
make install

or if you have Module::Build

perl Build.PL
perl Build
perl Build test
perl Build install

DEPENDENCIES

This module requires these other modules and libraries:
File::Basename File::Path File::Spec Getopt::Long
(all included with Perl).

Testing requires File::Temp and Test::More which are available with perl 5.6.0. I have successfully installed those modules for perl 5.005_05 and tested this module.

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Found in path(s):
* /opt/cola/permits/1136205553_1613708317.37/0/rename-0-20-orig-1-tar-gz/File-Rename-0.20/README

1.78 microsoft-win32-registry 4.0.30319.17929

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Martin Richards
23 February 2007

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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<hamcrest.version>1.3</hamcrest.version>
<junit.version>4.12</junit.version>
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* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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John R. Hauser
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## -*-makefile-*-##

### BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)

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

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

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

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

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

### Shared library options
LD_SOOPTIONS= -Wl,-Bs symbolic

### Shared object suffix
SO = so
### Non-shared intermediate object suffix
STATIC_O = ao

### Compilation rules
## Dependency rules

%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.c) $< \n| sed \"s/\(^\*\)/\1.o $@ : /g\" > $@; \n[ -s $@ ] \| rm -f $@

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.cc) $< \n| sed \"s/\(^\*\)/\1.o $@ : /g\" > $@; \n[ -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

1.99 iproute 4.3.0-1ubuntu3.16.04.1

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Manifest-Version: 1.0
BoringSSL-Revision: 243b5cc9e33979ae2afa79eaa4e4c8d59db161d4
Bundle-Description: A Mavenized fork of Tomcat Native which incorporates various patches. This artifact is statically linked to BoringSSL and Apache APR.
Apr-Version: 1.6.5
Automatic-Module-Name: io.netty.tcnative.boringssl
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.tcnative-boringssl-static
Archiver-Version: Plexus Archiver
Built-By: norman
Bnd-LastModified: 1584602214305
Bundle-ManifestVersion: 2
Bundle-DocURL: http://netty.io/
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Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="
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/* zlib.h -- interface of the 'zlib' general purpose compression library
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/* zlib.h -- interface of the 'zlib' general purpose compression library
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https://github.com/dotnet/coreclr/blob/a9074bce5e3814db67dbec1c56f477202164d162/tests/src/sizeondisk/sodbenc h/SoDBench.cs#L738

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  </PropertyGroup>
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    <Compile Include="../../ServerContracts/Server.CoClasses.cs" />
    <Compile Include="../../ServerContracts/Server.Contracts.cs" />
    <Compile Include="../../ServerContracts/ServerGuids.cs" />
  </ItemGroup>
  <ItemGroup>
    <ProjectReference Include="../../NativeServer/CMakeLists.txt" />
    <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
  </ItemGroup>
</Project>

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Use: https://github.com/mono/mono/blob/23e6f6f4b58d72800f4e27fa29a6b58806ff475f/mono/mini/bench.cs#L65

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https://github.com/santoshsahoo/nbench (mirror of the same code)

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1.112 tiger-types 1.4
1.112.1 Available under license:

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<!DOCTYPE html>
<html lang="en" dir="ltr">
<head profile="http://www.w3.org/1999/xhtml/vocab">
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<meta name="Generator" content="Drupal 7 (http://drupal.org)" />
<link rel="canonical" href="/licenses/CDDL-1.0" />
<title>Common Development and Distribution License (CDDL-1.0) | Open Source Initiative</title>
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  var x;
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    x = "<br><p>The following are other community resources that may be helpful:<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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THE BASIC LIBRARY FUNCTIONS
-----------------------------

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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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, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

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

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

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1.125 python-netaddr 0.7.18 1

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1.127 ansible 2.9.6

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- when: vcsim is not defined
  block:
    - name: Add a vCenter evaluation license
      vcenter_license: &vcenter_lic_data
hostname: "{{ vcenter_hostname }}"
username: "{{ vcenter_username }}"
password: "{{ vcenter_password }}"
validate_certs: no
license: 00000-00000-00000-00000-00000
state: present

- name: Remove an (unused) vCenter evaluation license
  vcenter_license:
    <<: *vcenter_lic_data
    state: absent

- name: Add an invalid vCenter license
  vcenter_license:
    <<: *vcenter_lic_data
    license: 00000-00000-00000-00000-00001
    state: present
  register: vcenter_license_output
  failed_when: "'is not existing or can not be added' not in vcenter_license_output.msg"
dependencies:
  - prepare_vmware_tests
This package was debianized by Henry Graham (hzgraham) <Henry.Graham@mail.wvu.edu> on Tue, 17 Apr 2012 12:19:47 -0400.

It was downloaded from https://github.com/ansible/ansible.git

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(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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Julian Seward, jseward@bzip.org
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1.133 avahi 0.6.32~rc+dfsg-1ubuntu2

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

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* org.eclipse.jetty.orbit:javax.mail.glassfish
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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

Oracle OpenJDK

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* java.sun.security.ssl

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

OW2

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

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl
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org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
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org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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The End

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

That's all there is to it!

1.140 idna 2.10

1.140.1 Available under license:

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

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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.

```python
import io, sys
from setuptools import setup

def main():
    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = {}
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__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',
        ],
    }

    setup(**arguments)
```

No license file was found, but licenses were detected in source scan.
'Programming Language :: Python :: 2.7',
'Programming Language :: Python :: 3',
'Programming Language :: Python :: 3.4',
'Programming Language :: Python :: 3.5',
'Programming Language :: Python :: 3.6',
'Programming Language :: Python :: 3.7',
'Programming Language :: Python :: 3.8',
'Programming Language :: Python :: Implementation :: CPython',
'Programming Language :: Python :: Implementation :: PyPy',
'Topic :: Internet :: Name Service (DNS)',
'Topic :: Software Development :: Libraries :: Python Modules',
'Topic :: Utilities',
]

'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1110905341_1606871385.15/0/kjd-idna-v2-10-0-ge5c11db-1-tar-gz/kjd-idna-b8defb9/setup.py

1.141 nginx 1.8.1

1.141.1 Available under license:

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1.142 curator-recipes 2.3.0

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1.146 sound-theme-freedesktop 0.8-1

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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1.148 rsync 3.1.1 3ubuntu1.3

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This is Debian's prepackaged version of Andrew Tridgell and Paul Mackerras' rsync utility.

This package provides the rsync program, which is a replacement for rcp that uses the rsync algorithm to transfer only the differences between two sets of files.

This package was put together by Philip Hands <phil@hands.com>, from sources obtained from:
http://rsync.samba.org/ftp/rsync/rsync-2.5.4.tar.gz
The current version was downloaded from:
http://rsync.samba.org/ftp/rsync/src/rsync-3.1.0.tar.gz
on 2013-09-30 by Paul Slootman <paul@debian.org>.

The changes were very minimal - merely adding support for the Debian package maintenance scheme by adding various debian/* files.
The only significant change is passing the -4 / -6 options through to ssh.
See the debian/patches/ directory.

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1.149 lvm2 1.02.110-1ubuntu10

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1.152 zope-interface 4.1.3 1build1

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  jar/javassist/tools/reflect/CannotInvokeException.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/ClassPath.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
  jar/javassist/tools/rmi/StubGenerator.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
  jar/javassist/bytecode/stackmap/TypeData.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
  jar/javassist/compiler/ast/IntConst.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
  jar/javassist/SerialVersionUID.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
  jar/javassist/util/proxy/SerializedProxy.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
  jar/javassist/bytecode/annotation/AnnotationImpl.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
  jar/javassist/compiler/ast/NewArray.java

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Open Source Used In HyperFlex HX Data Platform 4.5(2d) 1593
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 */

Found in path(s):
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/innerclassesattribute.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/methodinfo.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/astree.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/list.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/init.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/tools/reflect/loader.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/util/securityactions.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/pair.java
1.154 libjpeg 8c 2ubuntu8

1.154.1 Available under license:

Name: libjpeg8-empty

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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/util/concurrent/Runnables.java
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/thirdparty/publicsuffix/PublicSuffixType.java
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/io/CharSequenceReader.java
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3.jar/jersey/repackaged/com/google/common/collect/ForwardingListIterator.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3.jar/jersey/repackaged/com/google/common/collect/MapBasedMultiset.java
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/MapConstraint.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/AbstractListMultimap.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/SingletonImmutableSet.java
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/package-info.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/AbstractIterator.java

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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
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 * /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collection/ImmutableSetMultimap.java
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/ImmutableRangeSet.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/io/GwtWorkarounds.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/io/BaseEncoding.java

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jar/jersey/repackaged/com/google/common/collect/Queues.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
jar/jersey/repackaged/com/google/common/collect/EmptyImmutableSortedMultiset.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
jar/jersey/repackaged/com/google/common/collect/TreeRangeSet.java
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jar/jersey/repackaged/com/google/common/hash/Hashing.java
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jar/jersey/repackaged/com/google/common/hash/HashCode.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
jar/jersey/repackaged/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
jar/jersey/repackaged/com/google/common/collect/Funnels.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/hash/MessageDigestHashFunction.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/AbstractSortedMultiset.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/DescendingImmutableSortedMultiset.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/RegularContiguousSet.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/util/concurrent/AtomicDoubleArray.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/cache/Striped64.java

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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/cache/Striped64.java

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*/opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/util/concurrent/Futures.java
*/opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/util/concurrent/TimeLimiter.java
*/opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/escape/CharEscaper.java
*/opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/io/PatternFilenameFilter.java
*/opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/annotations/VisibleForTesting.java
*/opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/util/concurrent/UncheckedTimeoutException.java
*/opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/escape/CharEscaperBuilder.java
*/opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/util/concurrent/FakeTimeLimiter.java
*/opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/reflect/TypeToken.java

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jar/jersey/repackaged/com/google/common/base/SmallCharMatcher.java

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 * /opt/cola/permits/113669690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
jar/jersey/repackaged/com/google/common/collect/ImmutableMapEntrySet.java
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
jar/jersey/repackaged/com/google/common/collect/ImmutableMapKeySet.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
jar/jersey/repackaged/com/google/common/primitives/Chars.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
jar/jersey/repackaged/com/google/common/collect/TreeBasedTable.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
jar/jersey/repackaged/com/google/common/primitives/Bytes.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
jar/jersey/repackaged/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
jar/jersey/repackaged/com/google/common/escape/Escaper.java
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
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jar/jersey/repackaged/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
jar/jersey/repackaged/com/google/common/collection/ImmutableMultiset.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/util/concurrent/SerializingExecutor.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/EmptyImmutableSortedSet.java
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/Tables.java
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collection/HashBasedTable.java
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collection/ImmutableCollection.java
jar/jersey/repackaged/com/google/common/collection/UnmodifiableIterator.java
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
jar/jersey/repackaged/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
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jar/jersey/repackaged/com/google/common/collection/ForwardingBlockingDeque.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
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1.167 apr-util 1.5.4 1build1

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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The following was received February 23, 2000 From: "Linn, John" February 19, 2000

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1.170 jackson-dataformat-yaml 2.4.5

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jar/com/ning/http/client/providers/netty/chmv8/Striped64.java
* /opt/cola/permits/1349048482_1655884542.5831199/0/async-http-client-1-9-40-sources-3-
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* /opt/cola/permits/1349048482_1655884542.5831199/0/async-http-client-1-9-40-sources-3-
jar/com/ning/http/client/filter/IOExceptionFilter.java
* /opt/cola/permits/1349048482_1655884542.5831199/0/async-http-client-1-9-40-sources-3-
jar/com/ning/http/client/multipart/MultipartBody.java
* /opt/cola/permits/1349048482_1655884542.5831199/0/async-http-client-1-9-40-sources-3-
jar/com/ning/http/client/webdav/WebDavCompletionHandlerBase.java
* /opt/cola/permits/1349048482_1655884542.5831199/0/async-http-client-1-9-40-sources-3-
jar/com/ning/http/client/ws/WebSocketPongListener.java
* /opt/cola/permits/1349048482_1655884542.5831199/0/async-http-client-1-9-40-sources-3-
jar/com/ning/http/client/ws/WebSocketTextListener.java
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jar/com/ning/http/client/extra/ThrottleRequestFilter.java
* /opt/cola/permits/1349048482_1655884542.5831199/0/async-http-client-1-9-40-sources-3-
jar/com/ning/http/client/generators/ByteArrayBodyGenerator.java
* /opt/cola/permits/1349048482_1655884542.5831199/0/async-http-client-1-9-40-sources-3-
jar/com/ning/http/client/providers/jdk/JDKAsyncHttpProviderConfig.java
* /opt/cola/permits/1349048482_1655884542.5831199/0/async-http-client-1-9-40-sources-3-
jar/com/ning/http/client/webdav/WebDavResponse.java
* /opt/cola/permits/1349048482_1655884542.5831199/0/async-http-client-1-9-40-sources-3-
jar/com/ning/http/client/ws/WebSocketUpgradeHandler.java
* /opt/cola/permits/1349048482_1655884542.5831199/0/async-http-client-1-9-40-sources-3-
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* /opt/cola/permits/1349048482_1655884542.5831199/0/async-http-client-1-9-40-sources-3-
jar/com/ning/http/client/ws/WebSocket.java
* /opt/cola/permits/1349048482_1655884542.5831199/0/async-http-client-1-9-40-sources-3-
jar/com/ning/http/client/listener/TransferCompletionHandler.java
* /opt/cola/permits/1349048482_1655884542.5831199/0/async-http-client-1-9-40-sources-3-
jar/com/ning/http/client/consumers/AppendableBodyConsumer.java
* /opt/cola/permits/1349048482_1655884542.5831199/0/async-http-client-1-9-40-sources-3-
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jar/com/ning/ws/WebSocketListener.java
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jar/com/ning/http/client/resumable/ResumableIOExceptionFilter.java
* /opt/cola/permits/1349048482_1655884542.5831199/0/async-http-client-1-9-40-sources-3-
jar/com/ning/http/client/filter/FilterContext.java
* /opt/cola/permits/1349048482_1655884542.5831199/0/async-http-client-1-9-40-sources-3-
jar/com/ning/http/client/AsyncHandlerExtensions.java
* /opt/cola/permits/1349048482_1655884542.5831199/0/async-http-client-1-9-40-sources-3-
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jar/com/ning/http/client/providers/grizzly/HttpTransactionContext.java
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*/
/**
* Value class used for OAuth tokens (request secret, access secret);
* simple container with two parts, public id part ("key") and
* confidential ("secret") part.
*/

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* /opt/cola/permits/1349048482_1655884542.5831199/0/async-http-client-1-9-40-sources-3-
  jar/com/ning/http/client/providers/netty/ws/NettyWebSocket.java
* /opt/cola/permits/1349048482_1655884542.5831199/0/async-http-client-1-9-40-sources-3-
  jar/com/ning/http/client/providers/netty/ws/NettyFileBody.java
* /opt/cola/permits/1349048482_1655884542.5831199/0/async-http-client-1-9-40-sources-3-
  jar/com/ning/http/client/providers/netty/handler/DefaultConnectionStrategy.java
* /opt/cola/permits/1349048482_1655884542.5831199/0/async-http-client-1-9-40-sources-3-
  jar/com/ning/http/client/providers/netty/request/body/BodyChunkedInput.java
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* /opt/cola/permits/1349048482_1655884542.5831199/0/async-http-client-1-9-40-sources-3-jar/com/ning/http/client/providers/grizzly/ConnectionManager.java
* /opt/cola/permits/1349048482_1655884542.5831199/0/async-http-client-1-9-40-sources-3-jar/com/ning/http/client/providers/grizzly/PayloadGenerator.java
* /opt/cola/permits/1349048482_1655884542.5831199/0/async-http-client-1-9-40-sources-3-jar/com/ning/http/peer/ssl/ThreadingManager.java
* /opt/cola/permits/1349048482_1655884542.5831199/0/async-http-client-1-9-40-sources-3-jar/com/ning/http/peer/ssl/ThreadLocalManager.java
* /opt/cola/permits/1349048482_1655884542.5831199/0/async-http-client-1-9-40-sources-3-jar/com/ning/http/peer/ssl/ThreadLocalManagerImpl.java
* /opt/cola/permits/1349048482_1655884542.5831199/0/async-http-client-1-9-40-sources-3-jar/com/ning/http/peer/ssl/ThreadLocalManagerImpl.java
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  jar/com/ning/http/client/ws/DefaultWebSocketListener.java
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*/
/**
* {@link com.ning.http.client.AsyncHttpProvider} proprietary configurable properties. Note that properties are
* <strong>AsyncHttpProvider</strong> dependent, so make sure you consult the AsyncHttpProvider's
* documentation
* about what is supported and what's not.
*/

Found in path(s):
* /opt/cola/permits/1349048482_1655884542.5831199/0/async-http-client-1-9-40-sources-3-
  jar/com/ning/http/client/AsyncHttpProviderConfig.java

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code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
with the library, after making changes to the library and recompiling
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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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   (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
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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1.178 go 1.15.7

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Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
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1.183 kbd 1.15.5 1ubuntu5

1.183.1 Available under license:

```
183k bd 1.15.5 1ubuntu5

PC Screen (console) Fonts - psf1 header

leshort 0x0436 psf screen font data
>2 byte 0 256 characters, no index
>2 byte 1 512 characters, no index
>2byte2256 characters, Unicode index
>2byte3512 characters, Unicode index
>2byte4256 characters, Unicode level 2 index
>2byte5512 characters, Unicode level 2 index
>3byte8x4d

PC Screen (console) Fonts - psf2 header

lelong 0x00436ab572 psf screen font data
>12 lelong 1 with Unicode index
```

---

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1.185 javassist 3.21.0-GA

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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/convert/TransformAccessArrayField.java
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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/analysis/MultiArrayType.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/ArrayInit.java
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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/ByteArray.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/analysis/Type.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/Pair.java
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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/expr/ExprEditor.java
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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/convert/TransformBefore.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/CtClassType.java
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jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-
jar/javassist/bytecode/annotation/DoubleMemberValue.java
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jar/javassist/bytecode/annotation/FloatMemberValue.java
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jar/javassist/bytecode/annotation/ByteMemberValue.java
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jar/javassist/bytecode/annotation/LongMemberValue.java
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jar/javassist/bytecode/annotation/EnumMemberValue.java
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jar/javassist/bytecode/annotation/Annotation.java
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jar/javassist/bytecode/annotation/StringMemberValue.java
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jar/javassist/bytecode/annotation/MemberValueVisitor.java
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jar/javassist/bytecode/annotation/ArrayMemberValue.java
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jar/javassist/bytecode/annotation/CharMemberValue.java
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1.186 coreapi 1.0.0
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Metadata-Version: 1.1
Name: coreapi
Version: 1.0.0
Summary: Hypermedia driven object interfaces.
Home-page: http://coreapi.org
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Description: UNKNOWN
Platform: UNKNOWN
Classifier: Development Status :: 3 - Alpha
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Glenn Randers-Pehrson
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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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1.211 icu 55

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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
```

Open Source Used In HyperFlex HX Data Platform 4.5(2d) 2206
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

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

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<

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

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

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

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$ (GEN_DEPS.c) $< \n| sed 's/^(%n)\(\*.o[ :]*\)/\1.o $@ : /g' > $@;  \
[ -s $@ ] || rm -f $@"

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$ (GEN_DEPS.cc) $< \n| sed 's/^(%n)\(\*.o[ :]*\)/\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) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS = -Wl,-bsymbolic

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

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
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1.216 ntplib 0.3.4
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from setuptools import setup
Description
-----------

This module offers a simple interface to query NTP servers from Python.

It also provides utility functions to translate NTP fields values to text (mode, leap indicator...). Since it's pure Python, and only depends on core modules, it should work on any platform with a Python implementation.

Example
-------

```python
>>> import ntplib
>>> from time import ctime
>>> c = ntplib.NTPClient()
>>> response = c.request('europe.pool.ntp.org', version=3)
>>> response.offset
-0.143156766891
>>> response.version
3
>>> ctime(response.tx_time)
'Sun May 17 09:32:48 2009'
>>> ntplib.leap_to_text(response.leap)
'no warning'
>>> response.root_delay
0.0046844482421875
>>> ntplib.ref_id_to_text(response.ref_id)
193.190.230.66
```

Installation
------------

As root::

    # python setup.py install

or just copy ntplib.py inside a directory in your sys.path, e.g.

    '/usr/lib/python2.5'.

```
setup(name='ntplib',
      version='0.3.4',
```
Open Source Used In HyperFlex HX Data Platform 4.5(2d)  2220

description='Python NTP library',
author='Charles-Francois Natali',
author_email='cf.natali@gmail.com',
url='https://github.com/cf-natali/ntplib',
py_modules=['ntplib'],
license='MIT',
classifiers=[
    'License :: OSI Approved :: MIT License',
    'Programming Language :: Python',
    'Operating System :: OS Independent',
    'Topic :: System :: Networking :: Time Synchronization'
],
long_description=long_description
)

Found in path(s):
* /opt/cola/permits/1155056166_1618924968.4/0/cf-natali-ntplib-0-3-4-0-gaea7925-tar-gz/cf-natali-ntplib-
aea7925/setup.py

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

version 0.3.3 - 2015-07-27
--------------------------
  - Change to more permissive MIT license

version 0.3.2 - 2014-02-02
--------------------------
  - PEP8 cleanup
  - Update descriptions to match RFC 5905. Patch by Yann Ilas.

version 0.3.1 - 2013-07-03
--------------------------
  - cleanup
  - update FSF address

version 0.3.0 - 2012-09-01
--------------------------
  - add a 'timeout' parameter to NTPClient.request()
  - rewrite tests using the unittest module, add many tests
  - cleanup

version 0.2.0 - 2012-04-01
--------------------------
  - cleanup
  - raise a NTPException when no response is received from server

version 0.1.8 - 2010-02-20
--------------------------
  - change to LGPL license
- cleanup

version 0.1.7 - 2009-12-24
--------------------------------
- cleanup
- fix delay computation (thanks to Michael FrÈ¨re for pointing that out)

version 0.1.6 - 2009-11-01
--------------------------------
- cleanup
- when the server doesn't respond within a reasonable interval, let the application handle socket.timeout

version 0.1.5 - 2009-07-13
--------------------------------
- perform stricter source check upon reception of a response
- small cleanup

version 0.1.4 - 2009-06-04
--------------------------------
- add properties to NTPStats to have timestamps converted to local time

version 0.1.3 - 2009-05-18
--------------------------------
- fix root delay and root dispersion computation

version 0.1.2 - 2009-05-17
--------------------------------
- create request packet after name resolution to avoid name resolution delay

version 0.1.1 - 2009-05-16
--------------------------------
- cleanup to conform to PEP 8
- when the server doesn't respond within a reasonable interval, raise a NTPException instead of a socket.timeout
- change initial values used to check the source address in NTPClient.request to (None, None), simpler and cleaner

version 0.1.0 - 2009-05-14
--------------------------------
- initial release

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* /opt/cola/permits/1155056166_1618924968.4/0/cf-natali-ntplib-0-3-4-0-gaea7925-tar-gz/cf-natali-ntplib-aea7925/CHANGELOG
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* /opt/cola/permits/1155056166_1618924968.4/0/cf-natali-ntplib-0-3-4-0-gaea7925-tar-gz/cf-natali-ntplib-aea7925/ntplib.py

### 1.217 jersey-test-framework-provider-grizzly2

#### 2.22.2

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#define UV_BSD_H

#define UV_PLATFORM_FS_EVENT_FIELDS
  uv__io_t event_watcher;

#define UV_IO_PRIVATE_PLATFORM_FIELDS
  int rcount;
  int wcount;

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */

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1.223 libpam4j 1.10

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* /opt/cola/permits/1151111073_1617788593.78/0/libpam4j-1-10-sources-2-
  jar/org/jvnet/libpam/impl/SolarisPasswd.java
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Martin Richards
23 February 2007

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jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001

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 usage: minibz2 [-d] [-[1,2,..9]] [[srcfilename] destfilename]
 */
1.227 kerb-util 2.0.0

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1.238 sensible-utils 0.0.9

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* /opt/cola/permits/1154060090_1618681066.82/0/websocket-api-9-1-4-v20140401-sources-2-jar/org/eclipse/jetty/websocket/api/UpgradeRequest.java
* /opt/cola/permits/1154060090_1618681066.82/0/websocket-api-9-1-4-v20140401-sources-2-jar/org/eclipse/jetty/websocket/api/extensions/IncomingFrames.java
* /opt/cola/permits/1154060090_1618681066.82/0/websocket-api-9-1-4-v20140401-sources-2-jar/org/eclipse/jetty/websocket/api/CloseException.java
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1.244 netty-resolver 4.1.45.Final

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* /opt/cola/permits/1257282452_1642795688.49/0/netty-resolver-4.1.45-final-sources-jar/io/netty/resolver/HostsFileEntries.java
* /opt/cola/permits/1257282452_1642795688.49/0/netty-resolver-4.1.45-final-sources-jar/io/netty/resolver/ResolvedAddressTypes.java

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* /opt/cola/permits/1257282452_1642795688.49/0/netty-resolver-4.1.45-final-sources-jar/io/netty/resolver/AbstractAddressResolver.java
* /opt/cola/permits/1257282452_1642795688.49/0/netty-resolver-4.1.45-final-sources-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
* /opt/cola/permits/1257282452_1642795688.49/0/netty-resolver-4.1.45-final-sources-jar/io/netty/resolver/HostsFileParser.java
* /opt/cola/permits/1257282452_1642795688.49/0/netty-resolver-4.1.45-final-sources-jar/io/netty/resolver/InetSocketAddressResolver.java
* /opt/cola/permits/1257282452_1642795688.49/0/netty-resolver-4.1.45-final-sources-jar/io/netty/resolver/CompositeNameResolver.java
* /opt/cola/permits/1257282452_1642795688.49/0/netty-resolver-4.1.45-final-sources-jar/io/netty/resolver/InetAddressResolver.java
* /opt/cola/permits/1257282452_1642795688.49/0/netty-resolver-4.1.45-final-sources-jar/io/netty/resolver/DefaultAddressResolverGroup.java
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* /opt/cola/permits/1257282452_1642795688.49/0/netty-resolver-4.1.45-final-sources-jar/io/netty/resolver/HostsFileParser.java
jar/io/netty/resolver/AddressResolver.java
* /opt/cola/permits/1257282452_1642795688.49/0/netty-resolver-4-1-45-final-sources-jar/io/netty/resolver/DefaultNameResolver.java
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* /opt/cola/permits/1257282452_1642795688.49/0/netty-resolver-4-1-45-final-sources-jar/io/netty/resolver/AddressResolverGroup.java
* /opt/cola/permits/1257282452_1642795688.49/0/netty-resolver-4-1-45-final-sources-jar/io/netty/resolver/SimpleNameResolver.java
* /opt/cola/permits/1257282452_1642795688.49/0/netty-resolver-4-1-45-final-sources-jar/io/netty/resolver/NoopAddressResolver.java
* /opt/cola/permits/1257282452_1642795688.49/0/netty-resolver-4-1-45-final-sources-jar/io/netty/resolver/NoopAddressResolverGroup.java
* /opt/cola/permits/1257282452_1642795688.49/0/netty-resolver-4-1-45-final-sources-jar/io/netty/resolver/NameResolver.java
* /opt/cola/permits/1257282452_1642795688.49/0/netty-resolver-4-1-45-final-sources-jar/io/netty/resolver/package-info.java
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  jar/io/netty/resolver/RoundRobinInetAddressResolver.java

1.245 sysstat 11.2.0 1ubuntu0.3

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1.246 jinja2 2.11.2

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```python
import io
import re

from setuptools import find_packages
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

with io.open("src/jinja2/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r'__version__ = "(.*)"', f.read(), re.M).group(1)

setup(
    name="Jinja2",
    version=version,
    url="https://palletsprojects.com/p/jinja/",
    project_urls={
        "Documentation": "https://jinja.palletsprojects.com/",
        "Code": "https://github.com/pallets/jinja",
        "Issue tracker": "https://github.com/pallets/jinja/issues",
    },
    license="BSD-3-Clause",
    author="Armin Ronacher",
    author_email="armin.ronacher@active-4.com",
    maintainer="Pallets",
    maintainer_email="contact@palletsprojects.com",
    description="A very fast and expressive template engine.",
    long_description=readme,
    classifiers=[
        "Development Status :: 5 - Production/Stable",
        "Environment :: Web Environment",
        "Intended Audience :: Developers",
        "License :: OSI Approved :: BSD License",
        "Operating System :: OS Independent",
        "Programming Language :: Python",
        "Programming Language :: Python :: 2",
        "Programming Language :: Python :: 2.7",
        "Programming Language :: Python :: 3",
        "Programming Language :: Python :: 3.5",
        "Programming Language :: Python :: 3.6",
        "Programming Language :: Python :: 3.7",
        "Programming Language :: Python :: 3.8",
    ]
```

"Programming Language :: Python :: Implementation :: CPython",
"Programming Language :: Python :: Implementation :: PyPy",
"Topic :: Internet :: WWW/HTTP :: Dynamic Content",
"Topic :: Software Development :: Libraries :: Python Modules",
"Topic :: Text Processing :: Markup :: HTML",
], packages=find_packages("src"), package_dir={"": "src"}, include_package_data=True, python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*", install_requires=["MarkupSafe>=0.23"], extras_require={"i18n": ["Babel>=0.8"]}, entry_points={"babel.extractors": ["jinja2 = jinja2.ext:babel_extract[i18n]"]},
)

Found in path(s):
* /opt/cola/permits/1160880513_1620412497.03/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/setup.py
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* /opt/cola/permits/1160880513_1620412497.03/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/LICENSE.rst
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Metadata-Version: 2.1
Name: Jinja2
Version: 2.11.2
Summary: A very fast and expressive template engine.
Home-page: https://palletsprojects.com/p/jinja/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
License: BSD-3-Clause
Project-URL: Code, https://github.com/pallets/jinja
Description: Jinja

======

Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

Installing

--------

Open Source Used In HyperFlex HX Data Platform 4.5(2d) 2458
Install and update using `pip`:

```
$ pip install -U Jinja2
```


In A Nutshell
-------------

```
{% extends "base.html" %}
{% block title %}Members{% endblock %}
{% block content %}
<ul>
{% for user in users %}
<li><a href="{{ user.url }}">{{ user.username }}</a></li>
{% endfor %}
</ul>
{% endblock %}
```

Links
-----
- Website: https://palletsprojects.com/p/jinja/
- Documentation: https://jinja.palletsprojects.com/
- Releases: https://pypi.org/project/Jinja2/
- Code: https://github.com/pallets/jinja
- Issue tracker: https://github.com/pallets/jinja/issues
- Test status: https://dev.azure.com/pallets/jinja/_build
- Official chat: https://discord.gg/t6rrQZH

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
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Since May 20 2000, it is maintained by Roland Bauerschmidt
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Since March 24 2004, it is maintained by Roland Bauerschmidt
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Since 23 Oct 2005, it has been maintained by Joerg Hoh <joerg@joerghoh.de>

Since June 2006, it has been maintained by Stephen Gran <sgran@debian.org>

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1.248 bzip2 1.0.6 8
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End:

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* /opt/ws_local/PERMITS_SQL/1016791210_1591897084.18/0/slf4j-log4j12-1-7-0-sources-jar/org/slf4j/impl/StaticLoggerBinder.java
* /opt/ws_local/PERMITS_SQL/1016791210_1591897084.18/0/slf4j-log4j12-1-7-0-sources-jar/org/slf4j/impl/Log4jLoggerAdapter.java
* /opt/ws_local/PERMITS_SQL/1016791210_1591897084.18/0/slf4j-log4j12-1-7-0-sources-jar/org/slf4j/impl/Log4jMDCAdapter.java
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* /opt/ws_local/PERMITS_SQL/1016791210_1591897084.18/0/slf4j-log4j12-1-7-0-sources-jar/org/slf4j/impl/StaticMarkerBinder.java

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**1.252 lftp 4.6.3a 1build2**

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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 CONTRIBUTIONS 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.

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

1.256 libpthread-stubs 0.3-4

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1.257 httpcomponents-core 4.0.1

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* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/ConsoleReaderInputStream.java
* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/ConsoleReader.java
* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/ArgumentCompletor.java
* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/UnixTerminal.java
* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/ANSIBuffer.java
* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/WindowsTerminal.java
* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/FileNameCompletor.java
* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/CursorBuffer.java
* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/History.java
1.260 example 21.12

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1.261 mpdecimal 2.4.2 1

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1.262 statsd 0.8.0-1

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1.263 error_prone_annotations 2.3.3

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* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/FormatMethod.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/MustBeClosed.java
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* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/Immutable.java
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* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/ForOverride.java

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1.266 rsync 3.1.1 3ubuntu1

1.266.1 Available under license :

This is Debian's prepackaged version of Andrew Tridgell and Paul Mackerras' rsync utility.

This package provides the rsync program, which is a replacement for rcp that uses the rsync algorithm to transfer only the differences between two sets of files.

This package was put together by Philip Hands <phil@hands.com>, from sources obtained from:
http://rsync.samba.org/ftp/rsync/rsync-2.5.4.tar.gz
The current version was downloaded from:
http://rsync.samba.org/ftp/rsync/src/rsync-3.1.0.tar.gz
on 2013-09-30 by Paul Slootman <paul@debian.org>.

The changes were very minimal - merely adding support for the Debian package maintenance scheme by adding various debian/* files.
The only significant change is passing the -4 / -6 options through to ssh.
See the debian/patches/ directory.

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Version 3, 29 June 2007

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1.273 pexpect 4.2.0

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1.282 txw2 2.3.0

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1.287 kerb-identity 2.0.0

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1.288 visual-studio-runtime 15.9.9(VC++ 2017)

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/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.11, January 15th, 2017

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CONFIDENTIAL flag will indicate that the use of SSL is
<xsd:enumeration value="CONFIDENTIAL"/>

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requires that the data sent between the client and server be sent in
such a way that it can't be changed in transit. CONFIDENTIAL means
that the application requires that the data be transmitted in a

fashion that prevents other entities from observing the contents of
the transmission. In most cases, the presence of the INTEGRAL or
CONFIDENTIAL flag will indicate that the use of SSL is required.

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1.293 cxf-rt-ws-addr 3.1.10

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1.294 urllib3 1.25.9

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# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

## 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 <https://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 <slangmn@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@ibofibi.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@ravelosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <https://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 <https://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 <https://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

* Benjamen 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

* Tomas Tomecek <tomecek@redhat.com>
* Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
* Respect the warning preferences at import.

* David D. Riddle <drriddle@illinois.edu>
* IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
* App Engine environment tests.
* Documentation re-write.

* John Krauss <https://github.com/talos>
* Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
* Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
* Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
* IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
* Fix low-level exceptions leaking from `HTTPResponse.stream()`.
* Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
* Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
* Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
* Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to ‘memoryview’ usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vending

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix ``util.selectors._fileobj_to_fd`` to accept `long``.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to `contrib.securetransport`'

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add ```HTTPResponse.geturl``` method to provide ```urlib2.urlopen().geturl()``` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings
* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  * Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
  * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
  * Remove a spurious TypeError from the exception chain inside
    HTTPConnectionPool._make_request(), also for BaseExceptions.

* Jorge Lopez Silva <https://github.com/jalopezsilva>
  * Added support for forwarding requests through HTTPS proxies.

* Benno Rice <benno@jeamland.net>
  * Allow cadata parameter to be passed to underlying `SSLContext.load_verify_locations()`.

* Keiichi Kobayashi <abok.1k@gmail.com>
  * Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>
  * DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>
  * Test improvements

* Chris Olufson <tycarac@gmail.com>
  * Fix for connection not being released on HTTP redirect and response not preloaded

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

### 1.295 openssl 1.0.2u

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// Original can be found at:
// https://bitbucket.org/lindenlab/llsd
// Modifications by Joshua Bell inexorabletash@gmail.com
// https://github.com/inexorabletash/polyfill

// ES3/ES5 implementation of the Khronos Typed Array Specification
// Ref: http://www.khronos.org/registry/typedarray/specs/latest/
// Date: 2011-02-01
//
// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])
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# spdx-license-ids

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## Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/getting-started/what-is-npm):

```bash
npm install spdx-license-ids
```

## Node.js API

### require('spdx-license-ids')

Type: `Array<string>`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'Abstyles', 'Adobe-2006', 'Adobe-Glyph', 'ADSL', 'AFL-1.1', ...]

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=> true

ids.includes('GPL-3.0'); //=> false
```

### require('spdx-license-ids/deprecated')

Type: `Array<string>`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-3.0', 'eCos-2.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
```

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```
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```
var assert = require('assert');
var validSPDXExpression = {
  validForNewPackages: true,
  validForOldPackages: true,
  spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```
The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
```javascript
assert.deepEqual(
valid("Apache 2.0"),
{
  validForOldPackages: false,
  validForNewPackages: false,
  warnings: [ 
    'license should be ' + 
    'a valid SPDX license expression (without "LicenseRef"), ' + 
    '"UNLICENSED", or ' + 
    '"SEE LICENSE IN <filename>"',
    'license is similar to the valid expression "Apache-2.0"'
  ]
}
);
```javascript
```

SPDX expressions are valid, too ...

```javascript
```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
valid("(GPL-3.0-only OR BSD-2-Clause)"),
validSPDXExpression
);
```javascript
```

... except if they contain `LicenseRef`:

```javascript
```javascript
var warningAboutLicenseRef = {
  validForOldPackages: false,
  validForNewPackages: false,
  spdx: true,
  warnings: [ 
    'license should be ' + 
    'a valid SPDX license expression (without "LicenseRef"), ' + 
    '"UNLICENSED", or ' + 
    '"SEE LICENSE IN <filename>"',
  ]
};
```

```
```javascript
```javascript
assert.deepEqual(
valid('LicenseRef-Made-Up'),
warningAboutLicenseRef
);
```javascript
```

```javascript
```
assert.deepEqual(
    valid('(MIT OR LicenseRef-Made-Up)'),
    warningAboutLicenseRef
);
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```
```javascript
assert.deepEqual(
    valid('SEE LICENSE IN LICENSE.txt'),
    {
        validForNewPackages: true,
        validForOldPackages: true,
        inFile: 'LICENSE.txt'
    }
);
```

assert.deepEqual(
    valid('SEE LICENSE IN license.md'),
    {
        validForNewPackages: true,
        validForOldPackages: true,
        inFile: 'license.md'
    }
);
```

If there aren't any licensing terms, use `UNLICENSED`:

```
```javascript
var unlicensed = {
    validForNewPackages: true,
    validForOldPackages: true,
    unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```

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1.311 iputils 20121221-5ubuntu2

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It has been maintained for Debian by Noah Meyerhans <noahm@debian.org> since 6 Feb 2001.

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/**
* @param c Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &
  2=DC_CONFIDENTIAL
*/
/**
* @return Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &
  2=DC_CONFIDENTIAL
*/

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/**
* Utf8 Appendable abstract base class
 *
* This abstract class wraps a standard { @link java.lang.Appendable } and provides methods to append UTF-8
* encoded bytes, that are converted into characters.
* 
* This class is stateful and up to 4 calls to { @link #append(byte) } may be needed before state a character is
* appended to the string buffer.
* 
* The UTF-8 decoding is done by this class and no additional buffers or Readers are used. The UTF-8 code was
* inspired by
* http://bjoern.hoehrmann.de/utf-8/decoder/dfa/
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Blars Blarson, Colin Watson and Christian Perrier contributed to NMUs in 2005 and the package is currently team maintained by Anibal Monsalve...
Salazar, Matt Taggart and Matthew Wilcox.

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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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(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
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1.319 elfutils 0.165 3ubuntu1

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Version 3, 29 June 2007

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1.320 pythonurllib 1.13.1 2ubuntu0.16.04.4

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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/@WBRSRlBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
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* 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

* Stanislaw 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

* Benjamen 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

* Tomas Tomecek <ttomecek@redhat.com>
* Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
* Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
* IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
* App Engine environment tests.
* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@gmail.com>
  * Bugfix related to reusing connections in indeterminate states.

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

### 1.321 certifi 2020.06.20

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This package contains a modified version of ca-bundle.crt:

```
cabundle.crt -- Bundle of CA Root Certificates
```

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla’s root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
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1.323 icu 55.1-7ubuntu0.3

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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

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

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

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

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

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
## 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_TARGET_VERSION_MAJOR): %.$@.$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$@: %.$@.$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s %{F}.$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

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

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

1.324 libtirpc 0.2.5 1
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It was downloaded from

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Open Source Used In HyperFlex HX Data Platform 4.5(2d)  3202

Interface, Version 2 RFC2203:  RPCSEC_GSS Protocol
Specification RFC2695:  Authentication Mechanisms for ONC RPC

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1.326 libxi 1.1.3-1

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1.332 ansible 2.2.1.0

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1.344 jackson-dataformat-yaml 2.9.8
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It is currently developed by a community of developers, as well as supported
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### 1.345 caffeine 2.8.0

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File: orm-busy.trace.xz
Description: Database object access of an e-commerce web application during a busy daytime.

File: orm-night.trace.xz
Description: Database object access of an e-commerce web application during the night time.

File: web07.trace.xz
Description: Normalized access trace (HTTP requests) of a product detail page in July 2013.

File: web12.trace.xz
Description: Normalized access trace (HTTP requests) of a product detail page in December 2013.

Format: The accessed objects comprise of a mixture of product inventory, availability per price and also customer data. Objects are keyed by type, id and a index (e.g. the 3rd price of a product). All data is normalized into numbers starting at 0 (or 1 for sub-ids) and then collapsed into a single integer consisting of,

- Bits 27-31: type
- Bits 9-26: id
- Bits 0-9: index
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1.346 jackson-jaxrs-base 2.4.5

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1.348 cjson 1.7.14

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1.350 libasyncns 0.8-5build1

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1.352 asm-debug-all 5.0.4

1.353 screen 1.0.1
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1.354 python-structlog 15.2.0 1

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1.355 pycparser 2.20
1.355.1 Available under license:

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1.357 quartz 2.1.7

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 */

Found in path(s):
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  jar/com/sun/activation/registries/MimeTypeFile.java
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  jar/javax/activation/MimetypesFileTypeMap.java
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1.359 grpc-go
2fd9ae294f38ed9a121193c51ec99fecd3b13eb

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- web-common_3_0.xsd
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Version 2.1, February 1999

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For lib/py/compat/win32/stdint.h

// ISO C9x compliant stdint.h for Microsoft Visual Studio
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1.370 pythonurllib 1.13.1 2ubuntu0.16.04.1

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# Contributions to the urlib3 project

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* Andrey Petrov <andrey.petrov@shazow.net>

## 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 <graaffatcolmingov@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

* Benjamen 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

* Tomas Tomecek <ttomecek@redhat.com>
* Implemented generator for getting chunks from chunked responses.
* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `crypto` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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1.374 libxt 1.1.5-0ubuntu1

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* /opt/ws_local/PERMITS_SQL/1078286973_1597285663.32/0/jackson-mapper-asl-1-9-13-sources-2-jar/org/codehaus/jackson/map/MappingJsonFactory.java

1.376 requests-ntlm 1.1.0

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Martin Richards
23 February 2007
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/* zlib.h -- interface of the 'zlib' general purpose compression library
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/dom3/as/ASNotationDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/dom3/as/ASObject.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/dom3/as/CharacterDataEditAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/dom3/as/DOMImplementationAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/dom3/as/ASDataType.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/dom3/as/ASObjectList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/dom3/as/DocumentAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/dom3/as/ASAttributeDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/dom3/as/ASElementDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/dom3/as/ASEntityDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/dom3/as/ASObjectList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/dom3/as/NodeEditAS.java

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*/
/**
* Checks if this content model has had its min/maxOccurs values reduced for
* purposes of speeding up UPA. If so, this content model should not be used
* for any purpose other than checking unique particle attribution
*
* @return a boolean that says whether this content has been compacted for UPA
*/

Found in path(s):
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*/
/**
* DOM Level 3 LS CR - Experimental.
* Create a new <code>LSParser</code>. The newly constructed parser may
* then be configured by means of its <code>DOMConfiguration</code>
* object, and used to parse documents by means of its <code>parse</code>
* method.
* @param mode The <code>mode</code> argument is either
* <code>MODE_SYNCHRONOUS</code> or <code>MODEASYNCHRONOUS</code>, if
* <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
* <code>LSParser</code> that is created will operate in synchronous
* mode, if it's <code>MODEASYNCHRONOUS</code> then the
* <code>LSParser</code> that is created will operate in asynchronous
* mode.
* @param schemaType An absolute URI representing the type of the schema
* language used during the load of a <code>Document</code> using the
* newly created <code>LSParser</code>. Note that no lexical checking
* is done on the absolute URI. In order to create a
* <code>LSParser</code> for any kind of schema types (i.e. the
* LSParser will be free to use any schema found), use the value
* <code>null</code>.
*<p><b>Note:</b> For W3C XML Schema [<a href='http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/'>XML Schema Part 1</a>]
* applications must use the value
* <code>"http://www.w3.org/2001/XMLSchema"</code>. For XML DTD [<a href='http://www.w3.org/TR/2000/REC-xml-20001006'>XML 1.0</a>],
* applications must use the value
* <code>"http://www.w3.org/TR/REC-xml"</code>. Other Schema languages
* are outside the scope of the W3C and therefore should recommend an
* absolute URI in order to use this method.
*<p><b>Note:</b> By default, the newly created <code>LSParser</code> object. This
* <code>LSParser</code> is either synchronous or asynchronous
* depending on the value of the <code>mode</code> argument.
*<p><b>Note:</b> By default, the newly created <code>LSParser</code> does not contain a <code>DOMErrorHandler</code>, i.e. the value of
* the "<a href='http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler'>error-handler</a>" configuration parameter is <code>null</code>. However, implementations
* may provide a default error handler at creation time. In that case,
* the initial value of the <code>"error-handler"</code> configuration
* parameter on the new created <code>LSParser</code> contains a
* reference to the default error handler.
*<p><b>Note:</b> NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
* not supported.
*/

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*/
/**
 * used to check the 3 constraints against each complex type
 * (should be each model group):
 * Unique Particle Attribution, Particle Derivation (Restriction),
 * Element Declarations Consistent.
 */

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/impl/xs/traversers/XSDElementTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/xni/parser/XMLErrorHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/util/ShadowedSymbolTable.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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  jar/org/apache/wml/dom/WMLTimerElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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  jar/org/apache/xerces/impl/xs/StringList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/wml/WMLWmlElementImpl.java
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  jar/org/apache/xerces/impl/dv/xs/AnySimpleDV.java
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jar/org/apache/xml/serialize/Method.java
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jar/org/apache/xerces/stax/events/EntityReferenceImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xxs/datatypes/ByteList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLBodyElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/util/DOMUtil.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLIElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/SAXParserFactoryImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xpointer/ElementSchemePointer.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/XMLMessageFormatter.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/validation/SofReferenceGrammarPool.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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jar/org/apache/xerces/impl/xs/XSLoaderImpl.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/html/dom/HTMLTableCaptionElementImpl.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/impl/dv/xs/YearDV.java
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1.388 commons-pool 1.6-2

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1.396 rsync 3.5.6

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/* number.c: Implements arbitrary precision numbers. */
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*************************************************************************/

#include <stdio.h>
#include <config.h>
#include <number.h>
#include <assert.h>
#include <stdlib.h>
#include <string.h>
#include <ctype.h> /* Prototypes needed for external utility routines. */
#define bc_rt_warn rt_warn
#define bc_rt_error rt_error
#define bc_out_of_memory out_of_memory

_PROTOTYPE(void rt_warn, (char *mesg ,...));
_PROTOTYPE(void rt_error, (char *mesg ,...));
_PROTOTYPE(void out_of_memory, (void));

/* Storage used for special numbers. */
bc_num _zero_
bc_num _one_
bc_num _two_

static bc_num _bc_Free_list = NULL;

/* new_num allocates a number and sets fields to known values. */

bc_num
bc_new_num (length, scale)
   int length, scale;
{
   bc_num temp;

   if (_bc_Free_list != NULL) {
      temp = _bc_Free_list;
      _bc_Free_list = temp->n_next;
   } else {
      temp = (bc_num) malloc (sizeof(bc_struct));
      if (temp == NULL) bc_out_of_memory ();
   }
   temp->n_sign = PLUS;
   temp->n_len = length;
   temp->n_scale = scale;
   temp->n_refs = 1;
   temp->n_ptr = (char *) malloc (length+scale);
   if (temp->n_ptr == NULL) bc_out_of_memory();
   temp->n_value = temp->n_ptr;
   memset (temp->n_ptr, 0, length+scale);
   return temp;
}

/* "Frees" a bc_num NUM. Actually decreases reference count and only
frees the storage if reference count is zero. */

void
bc_free_num (num)
   bc_num *num;
{
if (*num == NULL) return;
(*num)->n_refs--;
if ((*num)->n_refs == 0) {
    if ((*num)->n_ptr)
        free ((*num)->n_ptr);
    (*num)->n_next = _bc_Free_list;
    _bc_Free_list = *num;
}
*num = NULL;

/* Initialize the number package! */
void
bc_init_numbers ()
{
    _zero_ = bc_new_num (1,0);
    _one_  = bc_new_num (1,0);
    _one_->n_value[0] = 1;
    _two_  = bc_new_num (1,0);
    _two_->n_value[0] = 2;
}

/* Make a copy of a number! Just increments the reference count! */
bc_num
bc_copy_num (num)
    bc_num num;
{
    num->n_refs++;
    return num;
}

/* Initialize a number NUM by making it a copy of zero. */
void
bc_init_num (num)
    bc_num *num;
{
    *num = bc_copy_num (_zero_);
}

/* For many things, we may have leading zeros in a number NUM.
   _bc_rm_leading_zeros just moves the data "value" pointer to the
   correct place and adjusts the length. */
static void
_bc_rm_leading_zeros (num)
    bc_num num;
{
    /* We can move n_value to point to the first non zero digit! */
    while (*num->n_value == 0 && num->n_len > 1) {
        num->n_value++;
        num->n_len--;
    }
}

/* Compare two bc numbers. Return value is 0 if equal, -1 if N1 is less
   than N2 and +1 if N1 is greater than N2. If USE_SIGN is false, just
   compare the magnitudes. */

static int
_bc_do_compare (n1, n2, use_sign, ignore_last)
    bc_num n1, n2;
    int use_sign;
    int ignore_last;
{
    char *n1ptr, *n2ptr;
    int count;

    /* First, compare signs. */
    if (use_sign && n1->n_sign != n2->n_sign)
    {
        if (n1->n_sign == PLUS)
            return (1); /* Positive N1 > Negative N2 */
        else
            return (-1); /* Negative N1 < Positive N1 */
    }

    /* Now compare the magnitude. */
    if (n1->n_len != n2->n_len)
    {
        if (n1->n_len > n2->n_len)
        {
            /* Magnitude of n1 > n2. */
            if (!use_sign || n1->n_sign == PLUS)
                return (1);
            else
                return (-1);
        }
        else
        {
            /* Magnitude of n1 < n2. */
            if (!use_sign || n1->n_sign == PLUS)
                return (1);
            else
                return (-1);
        }
    }
}
/* Magnitude of n1 < n2. */
if (!use_sign || n1->n_sign == PLUS)
    return (-1);
else
    return (1);
}
}

/* If we get here, they have the same number of integer digits. 
check the integer part and the equal length part of the fraction. */
count = n1->n_len + MIN (n1->n_scale, n2->n_scale);
n1ptr = n1->n_value;
n2ptr = n2->n_value;

while ((count > 0) && (*n1ptr == *n2ptr))
{
    n1ptr++;
    n2ptr++;
    count--;
}
if (ignore_last && count == 1 && n1->n_scale == n2->n_scale)
    return (0);
if (count != 0)
{
    if (*n1ptr > *n2ptr)
    {
        /* Magnitude of n1 > n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (1);
        else
            return (-1);
    }
    else
    {
        /* Magnitude of n1 < n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (-1);
        else
            return (1);
    }
}
/* They are equal up to the last part of the equal part of the fraction. */
if (n1->n_scale != n2->n_scale)
{
    if (n1->n_scale > n2->n_scale)
    {
        for (count = n1->n_scale-n2->n_scale; count>0; count--)
            /* Magnitude of n1 > n2. */
            if (!use_sign || n1->n_sign == PLUS)
                return (1);
            else
                return (-1);
    }
    else
    {
        /* Magnitude of n1 < n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (-1);
        else
            return (1);
    }
}
if (*n1ptr++ != 0)
{
    /* Magnitude of n1 > n2. */
if (!use_sign || n1->n_sign == PLUS)
    return (1);
else
    return (-1);
}
else
{
    for (count = n2->n_scale-n1->n_scale; count>0; count--)
        if (*n2ptr++ != 0)
        {
            /* Magnitude of n1 < n2. */
if (!use_sign || n1->n_sign == PLUS)
    return (-1);
else
    return (1);
}
}

/* They must be equal! */
return (0);
}

/* This is the "user callable" routine to compare numbers N1 and N2. */

int
bc_compare (n1, n2)
    bc_num n1, n2;
{
    return _bc_do_compare (n1, n2, TRUE, FALSE);
}

/* In some places we need to check if the number is negative. */

char
bc_is_neg (num)
    bc_num num;
{
    return num->n_sign == MINUS;
}

/* In some places we need to check if the number NUM is zero. */
char
bc_is_zero (num)
{
int count;
char *nptr;

/* Quick check. */
if (num == __zero__) return TRUE;

/* Initialize */
count = num->n_len + num->n_scale;
nptr = num->n_value;

/* The check */
while ((count > 0) && (*nptr++ == 0)) count--;

if (count != 0)
    return FALSE;
else
    return TRUE;
}

/* In some places we need to check if the number NUM is almost zero. *
Specifically, all but the last digit is 0 and the last digit is 1. *
Last digit is defined by scale. */

char
bc_is_near_zero (num, scale)
{
int count;
char *nptr;

/* Error checking */
if (scale > num->n_scale)
    scale = num->n_scale;

/* Initialize */
count = num->n_len + scale;
nptr = num->n_value;

/* The check */
while ((count > 0) && (*nptr++ == 0)) count--;

if (count != 0 && (count != 1 || *--nptr != 1))
    return FALSE;
else
    return TRUE;
}

/* Perform addition: N1 is added to N2 and the value is
returned. The signs of N1 and N2 are ignored.
SCALE_MIN is to set the minimum scale of the result. */

static bc_num
    _bc_do_add (n1, n2, scale_min)
    bc_num n1, n2;
    int scale_min;
{
    bc_num sum;
    int sum_scale, sum_digits;
    char *n1ptr, *n2ptr, *sumptr;
    int carry, n1bytes, n2bytes;
    int count;

    /* Prepare sum. */
    sum_scale = MAX (n1->n_scale, n2->n_scale);
    sum_digits = MAX (n1->n_len, n2->n_len) + 1;
    sum = bc_new_num (sum_digits, MAX(sum_scale, scale_min));

    /* Zero extra digits made by scale_min. */
    if (scale_min > sum_scale)
    {
        sumptr = (char *) (sum->n_value + sum_scale + sum_digits);
        for (count = scale_min - sum_scale; count > 0; count--)
            *sumptr++ = 0;
    }

    /* Start with the fraction part. Initialize the pointers. */
    n1bytes = n1->n_scale;
    n2bytes = n2->n_scale;
    n1ptr = (char *) (n1->n_value + n1->n_len + n1bytes - 1);
    n2ptr = (char *) (n2->n_value + n2->n_len + n2bytes - 1);
    sumptr = (char *) (sum->n_value + sum_scale + sum_digits - 1);

    /* Add the fraction part. First copy the longer fraction. */
    if (n1bytes != n2bytes)
    {
        if (n1bytes > n2bytes)
            while (n1bytes>n2bytes)
                { *sumptr-- = *n1ptr--; n1bytes--;
        else
            while (n2bytes>n1bytes)
/* Now add the remaining fraction part and equal size integer parts. */
辖区 &= n1->n_len;
辖区 &= n2->n_len;
carry = 0;
while ((n1辖区 > 0) && (辖区 > 0))
{
    *辖区 = *n1辖区 + *辖区 + carry;
    if (*辖区 > (BASE-1))
    {
        carry = 1;
        *辖区 = BASE;
    }
    else
    {
        *辖区 = *n1辖区 + carry;
        if (*辖区 > (BASE-1))
        {
            carry = 1;
            *辖区 = BASE;
        }
        else
        {
            *辖区 = *n1辖区 + carry;
            if (*辖区 > (BASE-1))
            {
                carry = 1;
                *辖区 = BASE;
            }
        }
    }
}
/* Now add carry the longer integer part. */
if (辖区 == 0)
{
   辖区 =辖区;
    *辖区 = *辖区 + carry;
    if (*辖区 > (BASE-1))
    {
        carry = 1;
        *辖区 = BASE;
    }
    else
    {
        *辖区 = *辖区 + carry;
        if (*辖区 > (BASE-1))
        {
            carry = 1;
            *辖区 = BASE;
        }
    }
}
/* Set final carry. */
if (carry == 1)
    *辖区 += 1;
/* Adjust sum and return. */
_bc_rm_leading_zeros (sum);
return sum;
/* Perform subtraction: N2 is subtracted from N1 and the value is returned. The signs of N1 and N2 are ignored. Also, N1 is assumed to be larger than N2. SCALE_MIN is the minimum scale of the result. */

static bc_num
_bc_do_sub (n1, n2, scale_min)
  bc_num n1, n2;
  int scale_min;
{
  bc_num diff;
  int diff_scale, diff_len;
  int min_scale, min_len;
  char *n1ptr, *n2ptr, *diffptr;
  int borrow, count, val;

  /* Allocate temporary storage. */
  diff_len = MAX (n1->n_len, n2->n_len);
  diff_scale = MAX (n1->n_scale, n2->n_scale);
  min_len = MIN  (n1->n_len, n2->n_len);
  min_scale = MIN (n1->n_scale, n2->n_scale);
  diff = bc_new_num (diff_len, MAX(diff_scale, scale_min));

  /* Zero extra digits made by scale_min. */
  if (scale_min > diff_scale)
  {
    diffptr = (char *) (diff->n_value + diff_len + diff_scale);
    for (count = scale_min - diff_scale; count > 0; count--)
      *diffptr++ = 0;
  }

  /* Initialize the subtract. */
  n1ptr = (char *) (n1->n_value + n1->n_len + n1->n_scale -1);
  n2ptr = (char *) (n2->n_value + n2->n_len + n2->n_scale -1);
  diffptr = (char *) (diff->n_value + diff_len + diff_scale -1);

  /* Subtract the numbers. */
  borrow = 0;

  /* Take care of the longer scaled number. */
  if (n1->n_scale != min_scale)
  {
    /* n1 has the longer scale */
    for (count = n1->n_scale - min_scale; count > 0; count--)
      *diffptr-- = *n1ptr--;
  }
  else
  {

  */
/* n2 has the longer scale */
for (count = n2->n_scale - min_scale; count > 0; count--)
{
    val = - *n2ptr-- - borrow;
    if (val < 0)
        {
            val += BASE;
            borrow = 1;
        }
    else
        borrow = 0;
    *diffptr-- = val;
}

/* Now do the equal length scale and integer parts. */
for (count = 0; count < min_len + min_scale; count++)
{
    val = *n1ptr-- - *n2ptr-- - borrow;
    if (val < 0)
        {
            val += BASE;
            borrow = 1;
        }
    else
        borrow = 0;
    *diffptr-- = val;
}

/* If n1 has more digits then n2, we now do that subtract. */
if (diff_len != min_len)
{
    for (count = diff_len - min_len; count > 0; count--)
    {
        val = *n1ptr-- - borrow;
        if (val < 0)
            {
                val += BASE;
                borrow = 1;
            }
        else
            borrow = 0;
        *diffptr-- = val;
    }

    /* Clean up and return. */
/* Here is the full subtract routine that takes care of negative numbers. 
N2 is subtracted from N1 and the result placed in RESULT. SCALE_MIN 
is the minimum scale for the result. */

void 
bc_sub (n1, n2, result, scale_min)
  bc_num n1, n2, *result;
  int scale_min;
{
  bc_num diff = NULL;
  int cmp_res;
  int res_scale;

  if (n1->n_sign != n2->n_sign)
  {
    diff = _bc_do_add (n1, n2, scale_min);
    diff->n_sign = n1->n_sign;
  }
  else
  {
    /* subtraction must be done. */
    /* Compare magnitudes. */
    cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE);
    switch (cmp_res)
    {
      case -1:
        /* n1 is less than n2, subtract n1 from n2. */
        diff = _bc_do_sub (n2, n1, scale_min);
        diff->n_sign = (n2->n_sign == PLUS ? MINUS : PLUS);
        break;
      case  0:
        /* They are equal! return zero! */
        res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
        diff = bc_new_num (1, res_scale);
        memset (diff->n_value, 0, res_scale+1);
        break;
      case  1:
        /* n2 is less than n1, subtract n2 from n1. */
        diff = _bc_do_sub (n1, n2, scale_min);
        diff->n_sign = n1->n_sign;
        break;
    }
  }
}
/* Clean up and return. */
bc_free_num (result);
*result = diff;
}

/* Here is the full add routine that takes care of negative numbers.
N1 is added to N2 and the result placed into RESULT. SCALE_MIN
is the minimum scale for the result. */
void
bc_add (n1, n2, result, scale_min)
    bc_num n1, n2, *result;
    int scale_min;
{
    bc_num sum = NULL;
    int cmp_res;
    int res_scale;

    if (n1->n_sign == n2->n_sign)
    {
        sum = _bc_do_add (n1, n2, scale_min);
        sum->n_sign = n1->n_sign;
    }
    else
    {
        /* subtraction must be done. */
        cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE); /* Compare magnitudes. */
        switch (cmp_res)
        {
        case -1:
            /* n1 is less than n2, subtract n1 from n2. */
            sum = _bc_do_sub (n2, n1, scale_min);
            sum->n_sign = n2->n_sign;
            break;
        case 0:
            /* They are equal! return zero with the correct scale! */
            res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
            sum = bc_new_num (1, res_scale);
            memset (sum->n_value, 0, res_scale+1);
            break;
        case 1:
            /* n2 is less than n1, subtract n2 from n1. */
            sum = _bc_do_sub (n1, n2, scale_min);
            sum->n_sign = n1->n_sign;
            break;
        }
    }
}
/* Clean up and return. */
bc_free_num (result);
*result = sum;
}

/* Recursive vs non-recursive multiply crossover ranges. */
#if defined(MULDIGITS)
#include "muldigits.h"
#else
#define MUL_BASE_DIGITS 80
#endif

int mul_base_digits = MUL_BASE_DIGITS;
#define MUL_SMALL_DIGITS mul_base_digits/4

/* Multiply utility routines */

static bc_num
new_sub_num (length, scale, value)
    int length, scale;
    char *value;
{
    bc_num temp;

    if (_bc_Free_list != NULL) {
        temp = _bc_Free_list;
        _bc_Free_list = temp->n_next;
    } else {
        temp = (bc_num) malloc (sizeof(bc_struct));
        if (temp == NULL) bc_out_of_memory ();
    }
    temp->n_sign = PLUS;
    temp->n_len = length;
    temp->n_scale = scale;
    temp->n_refs = 1;
    temp->n_ptr = NULL;
    temp->n_value = value;
    return temp;
}

static void
.bc_simp_mul (bc_num n1, int n1len, bc_num n2, int n2len, bc_num *prod,
    int full_scale)
{
    char *n1ptr, *n2ptr, *pvptr;
    char *n1end, *n2end;/* To the end of n1 and n2. */
    int indx, sum, prodlens;
prodlen = n1len+n2len+1;

*prod = bc_new_num (prodlen, 0);

n1end = (char *) (n1->n_value + n1len - 1);
n2end = (char *) (n2->n_value + n2len - 1);
pvptr = (char *) ( (*prod)->n_value + prodlen - 1);
sum = 0;

/* Here is the loop... */
for (indx = 0; indx < prodlen-1; indx++)
{
    n1ptr = (char *) (n1end - MAX(0, indx-n2len+1));
    n2ptr = (char *) (n2end - MIN(indx, n2len-1));
    while ((n1ptr >= n1->n_value) && (n2ptr <= n2end))
        sum += *n1ptr-- * *n2ptr++;
    *pvptr-- = sum % BASE;
    sum = sum / BASE;
}
*pvptr = sum;

/* A special adder/subtractor for the recursive divide and conquer multiply algorithm. Note: if sub is called, accum must be larger than what is being subtracted. Also, accum and val must have n_scale = 0. (e.g. they must look like integers. *) */
static void
_bc_shift_addsub (bc_num accum, bc_num val, int shift, int sub)
{
    signed char *accp, *valp;
    int count, carry;

    count = val->n_len;
    if (val->n_value[0] == 0)
        count--;
    assert (accum->n_len+accum->n_scale >= shift+count);

    /* Set up pointers and others */
    accp = (signed char *) ( accum->n_value + accum->n_len + accum->n_scale - shift - 1);
    valp = (signed char *) (val->n_value + val->n_len - 1);
    carry = 0;

    if (sub) {
        /* Subtraction, carry is really borrow. */
        while (count--) {
            *accp++ = *valp++ - carry;
            carry = (*accp++ & 0x80) != 0;
            accp = (accp + 1);
        }
    } else {
        /* Addition. */
        while (count--) {
            *accp++ = *valp++ + carry;
            carry = (*accp++ & 0x80) != 0;
            accp = (accp + 1);
        }
    }
}
*accp -= *valp-- + carry;
  if (*accp < 0) {
    carry = 1;
    *accp-- += BASE;
  } else {
    carry = 0;
  }
  accp--;
}
}
while (carry) {
  *accp -= carry;
  if (*accp < 0)
    *accp-- += BASE;
  else
    carry = 0;
  }
}
/* Addition */
while (count--) {
  *accp += *valp-- + carry;
  if (*accp > (BASE-1)) {
    carry = 1;
    *accp-- += BASE;
  } else {
    carry = 0;
  }
  accp--;
}
while (carry) {
  *accp += carry;
  if (*accp > (BASE-1))
    *accp-- -= BASE;
  else
    carry = 0;
}
/* Recursive divide and conquer multiply algorithm. 
   Based on 
   Let u = u0 + u1*(b^n) 
   Let v = v0 + v1*(b^n) 
   Then uv = (B^n+1)*u1*v1 + B^n*(u1-u0)*(v0-v1) + (B^n+1)*u0*v0 

   B is the base of storage, number of digits in u1,u0 close to equal. */
static void
_bc_rec_mul (bc_num u, int ulen, bc_num v, int vlen, bc_num *prod,
int full_scale)
{
    bc_num u0, u1, v0, v1;
    int u0len, v0len;
    bc_num m1, m2, m3, d1, d2;
    int n, prodlen, m1zero;
    int d1len, d2len;

    /* Base case? */
    if ((ulen+vlen) < mul_base_digits || ulen < MUL_SMALL_DIGITS || vlen < MUL_SMALL_DIGITS) {
        _bc_simp_mul (u, ulen, v, vlen, prod, full_scale);
        return;
    }

    /* Calculate n -- the u and v split point in digits. */
    n = (MAX(ulen, vlen)+1) / 2;

    /* Split u and v. */
    if (ulen < n) {
        u1 = bc_copy_num (_zero_);
        u0 = new_sub_num (ulen,0, u->n_value);
    } else {
        u1 = new_sub_num (ulen-n, 0, u->n_value);
        u0 = new_sub_num (n, 0, u->n_value+ulen-n);
    }
    if (vlen < n) {
        v1 = bc_copy_num (_zero_);
        v0 = new_sub_num (vlen,0, v->n_value);
    } else {
        v1 = new_sub_num (vlen-n, 0, v->n_value);
        v0 = new_sub_num (n, 0, v->n_value+vlen-n);
    }

    _bc_rm_leading_zeros (u1);
    _bc_rm_leading_zeros (u0);
    u0len = u0->n_len;
    _bc_rm_leading_zeros (v1);
    _bc_rm_leading_zeros (v0);
    v0len = v0->n_len;

    m1zero = bc_is_zero(u1) || bc_is_zero(v1);

    /* Calculate sub results ... */

    bc_init_num(&d1);
    bc_init_num(&d2);
    bc_sub (u1, u0, &d1, 0);
d1len = d1->n_len;
b_c_sub (v0, v1, &d2, 0);
d2len = d2->n_len;

/* Do recursive multiplies and shifted adds. */
if (m1zero)
    m1 = bc_copy_num (_zero_);
else
    _bc_rec_mul (u1, u1->n_len, v1, v1->n_len, &m1, 0);

if (bc_is_zero(d1) || bc_is_zero(d2))
    m2 = bc_copy_num (_zero_);
else
    _bc_rec_mul (d1, d1len, d2, d2len, &m2, 0);

if (bc_is_zero(u0) || bc_is_zero(v0))
    m3 = bc_copy_num (_zero_);
else
    _bc_rec_mul (u0, u0->n_len, v0, v0->n_len, &m3, 0);

/* Initialize product */
prodlen = ulen+vlen+1;
*prod = bc_new_num(prodlen, 0);

if (!m1zero) {
    _bc_shift_addsub (*prod, m1, 2*n, 0);
    _bc_shift_addsub (*prod, m1, n, 0);
}
    _bc_shift_addsub (*prod, m3, n, 0);
    _bc_shift_addsub (*prod, m3, 0, 0);
    _bc_shift_addsub (*prod, m2, n, d1->n_sign != d2->n_sign);

/* Now clean up! */
bc_free_num (&u1);
b_c_free_num (&u0);
b_c_free_num (&v1);
b_c_free_num (&m1);
b_c_free_num (&v0);
b_c_free_num (&m2);
b_c_free_num (&m3);
b_c_free_num (&d1);
b_c_free_num (&d2);
}

/* The multiply routine.  N2 times N1 is put int PROD with the scale of
 the result being MIN(N2 scale+N1 scale, MAX (SCALE, N2 scale, N1 scale)). */
void
bc_multiply (n1, n2, prod, scale)
    bc_num n1, n2, *prod;
    int scale;
{
    bc_num pval;
    int len1, len2;
    int full_scale, prod_scale;

    /* Initialize things. */
    len1 = n1->n_len + n1->n_scale;
    len2 = n2->n_len + n2->n_scale;
    full_scale = n1->n_scale + n2->n_scale;
    prod_scale = MIN(full_scale,MAX(scale,MAX(n1->n_scale,n2->n_scale)));

    /* Do the multiply */
    _bc_rec_mul (n1, len1, n2, len2, &pval, full_scale);

    /* Assign to prod and clean up the number. */
    pval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
    pval->n_value = pval->n_ptr;
    pval->n_len = len2 + len1 + 1 - full_scale;
    pval->n_scale = prod_scale;
    _bc_rm_leading_zeros (pval);
    if (bc_is_zero (pval))
        pval->n_sign = PLUS;
    bc_free_num (prod);
    *prod = pval;
}

/* Some utility routines for the divide: First a one digit multiply.
   NUM (with SIZE digits) is multiplied by DIGIT and the result is
   placed into RESULT. It is written so that NUM and RESULT can be
   the same pointers. */

static void
_one_mult (num, size, digit, result)
    unsigned char *num;
    int size, digit;
    unsigned char *result;
{
    int carry, value;
    unsigned char *nptr, *rptr;

    if (digit == 0)
        memset (result, 0, size);
    else
if (digit == 1)
    memcpy (result, num, size);
else
{
    /* Initialize */
    nptr = (unsigned char *) (num+size-1);
rptr = (unsigned char *) (result+size-1);
carry = 0;

    while (size-- > 0)
    {
        value = *nptr-- * digit + carry;
        *rptr-- = value % BASE;
        carry = value / BASE;
    }

    if (carry != 0) *rptr = carry;
}
}

/* The full division routine. This computes N1 / N2. It returns
0 if the division is ok and the result is in QUOT. The number of
digits after the decimal point is SCALE. It returns -1 if division
by zero is tried. The algorithm is found in Knuth Vol 2. p237. */

int bc_divide (n1, n2, quot, scale)
    bc_num n1, n2, *quot;
    int scale;
{
    bc_num qval;
    unsigned char *num1, *num2;
    unsigned char *ptr1, *ptr2, *n2ptr, *qptr;
    int scale1, val;
    unsigned int len1, len2, scale2, qdigits, extra, count;
    unsigned int qdig, qguess, borrow, carry;
    unsigned char *mval;
    char zero;
    unsigned int norm;

    /* Test for divide by zero. */
    if (bc_is_zero (n2)) return -1;

    /* Test for divide by 1. If it is we must truncate. */
    if (n2->n_scale == 0)
{ 
  if (n2->n_len == 1 && *n2->n_value == 1) {
    
    qval = bc_new_num (n1->n_len, scale);
    qval->n_sign = (n1->n_sign == n2->n_sign ? PLUS : MINUS);
    memset (&qval->n_value[n1->n_len],0,scale);
    memcpy (qval->n_value, n1->n_value,
      n1->n_len + MIN(n1->n_scale,scale));
    bc_free_num (quot);
    *quot = qval;
  }
}

/* Set up the divide. Move the decimal point on n1 by n2's scale. */

Remember, zeros on the end of num2 are wasted effort for dividing. */

scale2 = n2->n_scale;
n2ptr = (unsigned char *) n2->n_value+n2->n_len+scale2-1;
while ((scale2 > 0) && (*n2ptr-- == 0)) scale2--;

len1 = n1->n_len + scale2;
scale1 = n1->n_scale - scale2;
if (scale1 < scale)
  extra = scale - scale1;
else
  extra = 0;
num1 = (unsigned char *) malloc (n1->n_len+n1->n_scale+extra+2);
if (num1 == NULL) bc_out_of_memory();
memset (num1, 0, n1->n_len+n1->n_scale+extra+2);
memcpy (num1+1, n1->n_value, n1->n_len+n1->n_scale);

len2 = n2->n_len + scale2;
num2 = (unsigned char *) malloc (len2+1);
if (num2 == NULL) bc_out_of_memory();
memcpy (num2, n2->n_value, len2);
*(num2+len2) = 0;
n2ptr = num2;
while (*n2ptr == 0)
  
    n2ptr++;
  len2--;
}

/* Calculate the number of quotient digits. */
if (len2 > len1+scale)
  
    qdigits = scale+1;
  zero = TRUE;
else
{
    zero = FALSE;
    if (len2>len1)
        qdigits = scale+1; /* One for the zero integer part. */
    else
        qdigits = len1-len2+scale+1;
}
/* Allocate and zero the storage for the quotient. */
qval = bc_new_num (qdigits-scale,scale);
memset (qval->n_value, 0, qdigits);
/* Allocate storage for the temporary storage mval. */
mval = (unsigned char *) malloc (len2+1);
if (mval == NULL) bc_out_of_memory ();
/* Now for the full divide algorithm. */
if (!zero)
{
    /* Normalize */
    norm =  10 / ((int)*n2ptr + 1);
    if (norm != 1)
    {
        _one_mult (num1, len1+scale1+extra+1, norm, num1);
        _one_mult (n2ptr, len2, norm, n2ptr);
    }
    /* Initialize divide loop. */
    qdig = 0;
    if (len2 > len1)
        qptr = (unsigned char *) qval->n_value+len2-len1;
    else
        qptr = (unsigned char *) qval->n_value;
    /* Loop */
    while (qdig <= len1+scale-len2)
    {
        /* Calculate the quotient digit guess. */
        if (*n2ptr == num1[qdig])
            qguess = 9;
        else
            qguess = (num1[qdig]*10 + num1[qdig+1]) / *n2ptr;
        /* Test qguess. */
        if (n2ptr[1]*qguess >
            (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
            + num1[qdig+2])
qguess--;  
/* And again. */
if (n2ptr[1]*qguess >
    (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
    + num1[qdig+2])
qguess--;  
}

/* Multiply and subtract. */
borrow = 0;
if (qguess != 0)
{
    *mval = 0;
    _one_mult (n2ptr, len2, qguess, mval+1);
    ptr1 = (unsigned char *) num1+qdig+len2;
    ptr2 = (unsigned char *) mval+len2;
    for (count = 0; count < len2+1; count++)
    {
        val = (int) *ptr1 - (int) *ptr2-- - borrow;
        if (val < 0)
        {
            val += 10;
            borrow = 1;
        }
        else
            borrow = 0;
        *ptr1-- = val;
    }
}

/* Test for negative result. */
if (borrow == 1)
{
    qguess--;  
    ptr1 = (unsigned char *) num1+qdig+len2;
    ptr2 = (unsigned char *) n2ptr+len2-1;
    carry = 0;
    for (count = 0; count < len2; count++)
    {
        val = (int) *ptr1 + (int) *ptr2-- + carry;
        if (val > 9)
        {
            val -= 10;
            carry = 1;
        }
        else
            carry = 0;
}
*ptr1-- = val;
}  
    if (carry == 1) *ptr1 = (*ptr1 + 1) % 10;
}

/* We now know the quotient digit. */
*qptr++ = qguess;
qdig++;
}

/* Clean up and return the number. */
qval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
if (bc_is_zero (qval)) qval->n_sign = PLUS;
_bc_rm_leading_zeros (qval);
b_free_num (quot);
*quot = qval;

/* Clean up temporary storage. */
free (mval);
free (num1);
free (num2);

return 0;/* Everything is OK. */
}

/* Division *and* modulo for numbers. This computes both NUM1 / NUM2 and
   NUM1 % NUM2  and puts the results in QUOT and REM, except that if QUOT
   is NULL then that store will be omitted.
*/

int
bc_divmod (num1, num2, quot, rem, scale)
    bc_num num1, num2, *quot, *rem;
    int scale;
{
    bc_num quotient = NULL;
    bc_num temp;
    int rscale;

    /* Check for correct numbers. */
    if (bc_is_zero (num2)) return -1;

    /* Calculate final scale. */
    rscale = MAX (num1->n_scale, num2->n_scale+scale);
    bc_init_num(&temp);
/* Calculate it. */
bc_divide (num1, num2, &temp, scale);
if (quot)
    quotient = bc_copy_num (temp);
bc_multiply (temp, num2, &temp, rscale);
bc_sub (num1, temp, rem, rscale);
bc_free_num (&temp);

if (quot)
{
    bc_free_num (quot);
    *quot = quotient;
}

return 0; /* Everything is OK. */
}

/* Modulo for numbers. This computes NUM1 % NUM2 and puts the result in RESULT. */

int
bc_modulo (num1, num2, result, scale)
bc_num num1, num2, *result;
int scale;
{
return bc_divmod (num1, num2, NULL, result, scale);
}

/* Raise BASE to the EXPO power, reduced modulo MOD. The result is placed in RESULT. If a EXPO is not an integer, only the integer part is used. */

int
bc_raisemod (base, expo, mod, result, scale)
bc_num base, expo, mod, *result;
int scale;
{
bc_num power, exponent, parity, temp;
int rscale;

/* Check for correct numbers. */
if (bc_is_zero(mod)) return -1;
if (bc_is_neg(expo)) return -1;

/* Set initial values. */
power = bc_copy_num (base);
exponent = bc_copy_num (expo);
temp = bc_copy_num (_one_);
bc_init_num(&parity);

/* Check the base for scale digits. */
if (base->n_scale != 0)
    bc_rt_warn ("non-zero scale in base");

/* Check the exponent for scale digits. */
if (exponent->n_scale != 0)
{
    bc_rt_warn ("non-zero scale in exponent");
    bc_divide (exponent, _one_, &exponent, 0); /*truncate */
}

/* Check the modulus for scale digits. */
if (mod->n_scale != 0)
    bc_rt_warn ("non-zero scale in modulus");

/* Do the calculation. */
rscale = MAX(scale, base->n_scale);
while ( !bc_is_zero(exponent) )
{
    (void) bc_divmod (exponent, _two_, &exponent, &parity, 0);
    if ( !bc_is_zero(parity) )
    {
        bc_multiply (temp, power, &temp, rscale);
        (void) bc_modulo (temp, mod, &temp, scale);
    }
    bc_multiply (power, power, &power, rscale);
    (void) bc_modulo (power, mod, &power, scale);
}

/* Assign the value. */
bc_free_num (&power);
bcko_num (&exponent);
bc_free_num (result);
*result = temp;
return 0; /* Everything is OK. */
}

/* Raise NUM1 to the NUM2 power. The result is placed in RESULT. Maximum exponent is LONG_MAX. If a NUM2 is not an integer, only the integer part is used. */

void
bc_raise (num1, num2, result, scale)
    bc_num num1, num2, *result;
int scale;
{
  bc_num temp, power;
  long exponent;
  int rscale;
  int pwrscale;
  int calcscale;
  char neg;

  /* Check the exponent for scale digits and convert to a long. */
  if (num2->n_scale != 0)
    bc_rt_warn("non-zero scale in exponent");
  exponent = bc_num2long(num2);
  if (exponent == 0 && (num2->n_len > 1 || num2->n_value[0] != 0))
    bc_rt_error("exponent too large in raise");

  /* Special case if exponent is a zero. */
  if (exponent == 0)
    {
      bc_free_num(result);
      *result = bc_copy_num(_one_);
      return;
    }

  /* Other initializations. */
  if (exponent < 0)
    {
      neg = TRUE;
      exponent = -exponent;
      rscale = scale;
    }
  else
    {
      neg = FALSE;
      rscale = MIN(num1->n_scale*exponent, MAX(scale, num1->n_scale));
    }

  /* Set initial value of temp. */
  power = bc_copy_num(num1);
  pwrscale = num1->n_scale;
  while ((exponent & 1) == 0)
    {
      pwrscale = 2*pwrscale;
      bc_multiply(power, power, &power, pwrscale);
      exponent = exponent >> 1;
    }
  temp = bc_copy_num(power);
  calcscale = pwrscale;
\begin{verbatim}

exponent = exponent >> 1;

/* Do the calculation. */
while (exponent > 0)
{
    pwrscale = 2*pwrscale;
    bc_multiply (power, power, &power, pwrscale);
    if ((exponent & 1) == 1) {
        calcscale = pwrscale + calcscale;
        bc_multiply (temp, power, &temp, calcscale);
    }
    exponent = exponent >> 1;
}

/* Assign the value. */
if (neg)
{
    bc_divide (_one_, temp, result, rscale);
    bc_free_num (&temp);
}
else
{
    bc_free_num (result);
    *result = temp;
    if ((*result)->n_scale > rscale)
        (*result)->n_scale = rscale;
}
bc_free_num (&power);

/* Take the square root NUM and return it in NUM with SCALE digits
after the decimal place. */

int
bc_sqrt (num, scale)
    bc_num *num;
    int scale;
{
    int rscale, cmp_res, done;
    int cscale;
    bc_num guess, guess1, point5, diff;

    /* Initial checks. */
    cmp_res = bc_compare (*num, _zero_);
    if (cmp_res < 0)
        return 0;/* error */
    else
        {

\end{verbatim}
if (cmp_res == 0)
{
    bc_free_num (num);
    *num = bc_copy_num (_zero_);
    return 1;
}
}
cmp_res = bc_compare (*num, _one_);
if (cmp_res == 0)
{
    bc_free_num (num);
    *num = bc_copy_num (_one_);
    return 1;
}

/* Initialize the variables. */
rscale = MAX (scale, (*num)->n_scale);
bc_init_num(&guess);
bc_init_num(&guess1);
bc_init_num(&diff);
point5 = bc_new_num (1,1);
point5->n_value[1] = 5;

/* Calculate the initial guess. */
if (cmp_res < 0)
{
    /* The number is between 0 and 1. Guess should start at 1. */
    guess = bc_copy_num (_one_);
    cscale = (*num)->n_scale;
}
else
{
    /* The number is greater than 1. Guess should start at 10^(exp/2). */
    bc_int2num (&guess,10);

    bc_int2num (&guess1,(num)->n_len);
    bc_multiply (guess1, point5, &guess1, 0);
    guess1->n_scale = 0;
    bc_raise (guess, guess1, &guess, 0);
    bc_free_num (&guess1);
    cscale = 3;
}

/* Find the square root using Newton's algorithm. */
done = FALSE;
while (!done)
{

bc_free_num (&guess1);  
guess1 = bc_copy_num (guess);  
bc_divide (*num, guess, &guess, cscale);  
bc_add (guess, guess1, &guess, 0);  
bc_multiply (guess, point5, &guess, cscale);  
bc_sub (guess, guess1, &diff, cscale+1);  
if (bc_is_near_zero (diff, cscale))  
}  
if (cscale < rscale+1)  
cscale = MIN (cscale*3, rscale+1);  
else  
done = TRUE;  
}  
}  
/* Assign the number and clean up. */  
broadcast (num);  
broadcast (guess, guess, num, rscale);  
broadcast (guess1);  
broadcast (point5);  
broadcast (&diff);  
return 1;  
}  
/* The following routines provide output for bcd numbers package */  
using the rules of POSIX bc for output. */  
/* This structure is used for saving digits in the conversion process. */  
typedef struct stk_rec {  
long  digit;  
struct stk_rec *next;  
} stk_rec;  
/* The reference string for digits. */  
static char ref_str[] = "0123456789ABCDEF";  
/* A special output routine for "multi-character digits." Exactly */  
SIZE characters must be output for the value VAL. If SPACE is */  
non-zero, we must output one space before the number. OUT_CHAR */  
is the actual routine for writing the characters. */  
void  
bc_out_long (val, size, space, out_char)  
  long val;  
  int size, space;
#ifdef __STDC__
  void (*out_char)(int);
#else
  void (*out_char)();
#endif
{
  char digits[40];
  int len, ix;

  if (space) (*out_char) (' ');  
  sprintf(digits, "%ld", val);
  len = strlen(digits);
  while (size > len)
  {
    (*out_char) ('0');
    size--;
  }
  for (ix=0; ix < len; ix++)
    (*out_char) (digits[ix]);
}

/* Output of a bcd number. NUM is written in base O_BASE using OUT_CHAR 
   as the routine to do the actual output of the characters. */

void
bc_out_num (num, o_base, out_char, leading_zero)
  bc_num num;
  int o_base;
#ifdef __STDC__
  void (*out_char)(int);
#else
  void (*out_char)();
#endif
  int leading_zero;
{
  char *nptr;
  int index, fdigit, pre_space;
  stk_rec *digits, *temp;
  bc_num int_part, frac_part, base, cur_dig, t_num, max_o_digit;

  /* The negative sign if needed. */
  if (num->n_sign == MINUS) (*out_char) ('-');

  /* Output the number. */
  if (bc_is_zero (num))
    (*out_char) ('0');
  else
    if (o_base == 10)
{ /* The number is in base 10, do it the fast way. */
    nptr = num->n_value;
    if (num->n_len > 1 || *nptr != 0)
        for (index=num->n_len; index>0; index--)
            (*out_char) (BCD_CHAR(*nptr++));
    else
        nptr++;

    if (leading_zero && bc_is_zero (num))
        (*out_char) ('0');

    /* Now the fraction. */
    if (num->n_scale > 0)
        {
            (*out_char) ('.);
            for (index=0; index<num->n_scale; index++)
                (*out_char) (BCD_CHAR(*nptr++));
        }
    else
        {
            /* special case ... */
            if (leading_zero && bc_is_zero (num))
                (*out_char) ('0');

            /* The number is some other base. */
            digits = NULL;
            bc_init_num (&int_part);
            bc_divide (num, _one_, &int_part, 0);
            bc_init_num (&frac_part);
            bc_init_num (&cur_dig);
            bc_init_num (&base);
            bc_sub (num, int_part, &frac_part, 0);
            /* Make the INT_PART and FRAC_PART positive. */
            int_part->n_sign = PLUS;
            frac_part->n_sign = PLUS;
            bc_int2num (&base, o_base);
            bc_init_num (&max_o_digit);
            bc_int2num (&max_o_digit, o_base-1);

            /* Get the digits of the integer part and push them on a stack. */
            while (!bc_is_zero (int_part))
                {
                    bc_modulo (int_part, base, &cur_dig, 0);
                    temp = (stk_rec *) malloc (sizeof(stk_rec));
                    if (temp == NULL) be_out_of_memory();
                    (*out_char) (BCD_CHAR(*nptr++));
                }
        }
}
temp->digit = bc_num2long (cur_dig);
temp->next = digits;
digits = temp;
bc_divide (int_part, base, &int_part, 0);
}

/* Print the digits on the stack. */
if (digits != NULL)
{
    /* Output the digits. */
    while (digits != NULL)
    {
        temp = digits;
        digits = digits->next;
        if (o_base <= 16)
            (*out_char) (ref_str[ (int) temp->digit]);
        else
            bc_out_long (temp->digit, max_o_digit->n_len, 1, out_char);
        free (temp);
    }
}

/* Get and print the digits of the fraction part. */
if (num->n_scale > 0)
{
    (*out_char) ('.);
    pre_space = 0;
    t_num = bc_copy_num (_one_);
    while (t_num->n_len <= num->n_scale) {
        bc_multiply (frac_part, base, &frac_part, num->n_scale);
        fdigit = bc_num2long (frac_part);
        bc_int2num (&int_part, fdigit);
        bc_sub (frac_part, int_part, &frac_part, 0);
        if (o_base <= 16)
            (*out_char) (ref_str[fdigit]);
        else {
            bc_out_long (fdigit, max_o_digit->n_len, pre_space, out_char);
            pre_space = 1;
        }
        bc_multiply (t_num, base, &t_num, 0);
    }
    bc_free_num (&t_num);
}

/* Clean up. */
bc_free_num (&int_part);
bc_free_num (&frac_part);
bc_free_num (&base);
/* Convert a number NUM to a long. The function returns only the integer part of the number. For numbers that are too large to represent as a long, this function returns a zero. This can be detected by checking the NUM for zero after having a zero returned. */

long
bc_num2long (num)

    bc_num num;
{
    long val;
    char *nptr;
    int  index;

    /* Extract the int value, ignore the fraction. */
    val = 0;
    nptr = num->n_value;
    for (index=num->n_len; (index>0) && (val<=(LONG_MAX/BASE)); index--)
        val = val*BASE + *nptr++;

    /* Check for overflow. If overflow, return zero. */
    if (index>0) val = 0;
    if (val < 0) val = 0;

    /* Return the value. */
    if (num->n_sign == PLUS)
        return (val);
    else
        return (-val);
}

/* Convert an integer VAL to a bc number NUM. */

void
bc_int2num (num, val)

    bc_num *num;
    int val;
{
    char buffer[30];
    char *bptr, *vptr;
    int  ix = 1;
    char neg = 0;

    /* Sign. */
if (val < 0)
{
    neg = 1;
    val = -val;
}

/* Get things going. */
bptr = buffer;
*bptr++ = val % BASE;
val = val / BASE;

/* Extract remaining digits. */
while (val != 0)
{
    *bptr++ = val % BASE;
    val = val / BASE;
    ix++; /* Count the digits. */
}

/* Make the number. */
bc_free_num (num);
*num = bc_new_num (ix, 0);
if (neg) (*num)->n_sign = MINUS;

/* Assign the digits. */
vptr = (*num)->n_value;
while (ix-- > 0)
    *vptr++ = *--bptr;
}

/* Convert a numbers to a string. Base 10 only. */

char
*num2str (num)
    bc_num num;
{
    char *str, *sptr;
    char *nptr;
    int  index, signch;

    /* Allocate the string memory. */
    signch = ( num->n_sign == PLUS ? 0 : 1 ); /* Number of sign chars. */
    if (num->n_scale > 0)
        str = (char *) malloc (num->n_len + num->n_scale + 2 + signch);
    else
        str = (char *) malloc (num->n_len + 1 + signch);
    if (str == NULL) bc_out_of_memory();
/* The negative sign if needed. */
sptr = str;
if (signch) *sptr++ = '-';

/* Load the whole number. */
nptr = num->n_value;
for (index=num->n_len; index>0; index--)
    *sptr++ = BCD_CHAR(*nptr++);

/* Now the fraction. */
if (num->n_scale > 0)
{
    *sptr++ = '.';
    for (index=0; index<num->n_scale; index++)
        *sptr++ = BCD_CHAR(*nptr++);
}

/* Terminate the string and return it! */
*sptr = '0';
return (str);
}

/* Convert strings to bc numbers. Base 10 only.*/

void
bc_str2num (num, str, scale)
    bc_num *num;
    char *str;
    int scale;
{
    int digits, strscale;
    char *ptr, *nptr;
    char zero_int;

    /* Prepare num. */
    bc_free_num (num);

    /* Check for valid number and count digits. */
    ptr = str;
digits = 0;
strscale = 0;
zero_int = FALSE;
if ( ( *ptr == '+' ) || ( *ptr == '-' ) ) ptr++; /* Sign */
while ( *ptr == '0' ) ptr++; /* Skip leading zeros. */
while ( isdigit((int)*ptr) ) ptr++, digits++; /* digits */
if ( ( *ptr == '.' ) ) ptr++; /* Decimal point */
while ( isdigit((int)*ptr) ) ptr++, strscale++; /* digits */
if ( ( *ptr != '0' ) || ( digits + strscale == 0 ) )
{

*num = bc_copy_num (_zero_);
return;
}

/* Adjust numbers and allocate storage and initialize fields. */
strscale = MIN(strscale, scale);
if (digits == 0)
{
    zero_int = TRUE;
    digits = 1;
}
*num = bc_new_num (digits, strscale);

/* Build the whole number. */
ptr = str;
if (*ptr == '-'){
    (*num)->n_sign = MINUS;
    ptr++;
}
else{
    (*num)->n_sign = PLUS;
    if (*ptr == '+') ptr++;
}
while (*ptr == '0') ptr++; /* Skip leading zeros. */
nptr = (*num)->n_value;
if (zero_int)
{
    *nptr++ = 0;
    digits = 0;
}
for (;digits > 0; digits--)
    *nptr++ = CH_VAL(*ptr++);

/* Build the fractional part. */
if (strscale > 0)
{
    ptr++; /* skip the decimal point! */
    for (;strscale > 0; strscale--)
        *nptr++ = CH_VAL(*ptr++);
}

/* pn prints the number NUM in base 10. */
static void
out_char (int c)
{
    putchar(c);
}

void
pn (num)
  bc_num num;
{
    bc_out_num (num, 10, out_char, 0);
    out_char ('\n');
}

/* pv prints a character array as if it was a string of bcd digits. */
void
pv (name, num, len)
  char *name;
  unsigned char *num;
  int len;
{
    int i;
    printf ("%s=", name);
    for (i=0; i<len; i++) printf ("%c", BCD_CHAR(num[i]));
    printf ("\n");
}

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

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

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

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

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

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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

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

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Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL-GPLv2.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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  jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
  jar/io/netty/handler/ssl/JdkAlpnSslUtils.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
  jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
  jar/io/netty/handler/ssl/OptionalSslHandler.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
  jar/io/netty/handler/ssl/ocsp/package-info.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
  jar/io/netty/handler/ssl/SslCompletionEvent.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
  jar/io/netty/handler/ssl/SniCompletionEvent.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
  jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
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  jar/io/netty/handler/ssl/SslClientHelloHandler.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
  jar/io/netty/handler/ssl/Conscrypt.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
  jar/io/netty/handler/ssl/AbstractSniHandler.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
  jar/io/netty/handler/ssl/JdkAlpnSslEngine.java

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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/JdkSslContext.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/SslUtils.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/CipherSuiteConverter.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/SslProvider.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/SniHandler.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/OpenSslSessionContext.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/OpenSsl.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1.jar/io/netty/handler/ipfilter/package-info.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1.jar/io/netty/handler/ssl/OpenSslSessionStats.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1.jar/io/netty/handler/ssl/OpenSslEngine.java
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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1.jar/io/netty/handler/ssl/OpenSslEngine.java

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  jar/io/netty/handler/ssl/PseudoRandomFunction.java
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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/OpenSslSession.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
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  jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
  jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
  jar/io/netty/handler/ssl/ClientAuth.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
  jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslJavaxX509Certificate.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
  jar/io/netty/handler/ssl/SslContextBuilder.java

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1.416 cairo 1.14.6-1

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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/ForwardingDeque.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/StandardSystemProperty.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/ContiguousSet.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/SortedLists.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Preconditions.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/Interners.java

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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/FilteredMultimapValues.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Verify.java

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jar/com/google/common/collection/ForwardingTable.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/util/concurrent/Service.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collection/ForwardingListenableFuture.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collection/SingletonImmutableTable.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
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jar/com/google/common/collection/DiscreteDomain.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/Range.java
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  jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/common/collection/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/common/collection/ForwardingImmutableCollection.java
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  jar/com/google/common/collection/RowSortedTable.java

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jar/com/google/common/annotations/Beta.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collection/ImmutableRangeMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
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  jar/com/google/common/io/PatternFilenameFilter.java
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  jar/com/google/common/escape/CharEscaperBuilder.java
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  jar/com/google/common/io/AppendableWriter.java
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  jar/com/google/common/base/CaseFormat.java
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  jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
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  jar/com/google/common/util/concurrent/SingleThreadExecutor.java
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  jar/com/google/common/util/concurrent/CollectionFuture.java

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  jar/com/google/common/collect/MultimapBuilder.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/common/collect/ImmutableMapEntry.java
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  jar/com/google/common/eventbus/SubscriberExceptionHandler.java
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jar/com/google/common/cache/Striped64.java
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
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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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*   Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*   M. Welsh, 6 July 1996
*   *
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ext/FileCache/*
ext/GDBM_File/*
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1.431 xerces-c 2.7.1

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1.432 system-data-oledb 4.5.50709

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1.436 vim 7.4.1689-3ubuntu1.5

1.437 at-spi2-core 2.18.3-4ubuntu1

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1.438 libxext 1.3.3-1
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```cpp
#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/transform.hpp>
#include <boost/mpl/vector.hpp>

template <typename X>
struct f { using type = X; };

template <int i>
struct t { };

using vector = <%= <mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>") } %> >;

using result = boost::mpl::transform<vector, boost::mpl::quote1<f>>::type;

int main() { }
```
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dbName

BOOST_INTRUSIVE_DETAIL_MPL_HPP

BOOST_INTRUSIVE_DETAIL_MPL_HPP

BOOST_CONFIG_HPP

#include <boost/config.hpp>

BOOST_INTRUSIVE_DETAIL_MPL_HPP

#pragma once

#include <cstddef>

namespace boost {
namespace intrusive {
namespace detail {

using boost::move_detail::is_same;
using boost::move_detail::add_const;
using boost::move_detail::remove_const;
using boost::move_detail::remove_cv;
using boost::move_detail::remove_reference;
using boost::move_detail::add_reference;
using boost::move_detail::remove_pointer;
using boost::move_detail::add_pointer;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_
using boost::move_detail::is_const;
using boost::move_detail::identity;
using boost::move_detail::alignment_of;
using boost::move_detail::is_empty;
using boost::move_detail::addressof;
using boost::move_detail::integral_constant;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::bool_
using boost::move_detail::true_
using boost::move_detail::false_
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::apply;
using boost::move_detail::eval_if_c;
using boost::move_detail::eval_if;
using boost::move_detail::unvoid_ref;
using boost::move_detail::add_const_if_c;

template<
std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

};
static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME)     
    template <typename T>
    struct boost_intrusive_has_type_##TNAME
    {
        template <typename X>
        static char test(int, typename X::TNAME*);
        
        template <typename X>
        static int test(...);
        
        static const bool value = (1 == sizeof(test<T>(0, 0)));  
    };                                                   

    template <typename T, typename DefaultType>
    struct boost_intrusive_default_type_##TNAME
    {                                                      
        struct DefaultWrap { typedef DefaultType TNAME; };  
        
        typedef typename
            ::boost::intrusive::detail::if_c
            < boost_intrusive_has_type_##TNAME<T>::value
            , T, DefaultWrap>::type::TNAME type;          
    };                                                      

    //
#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL)   
    typename INSTANTIATION_NS_PREFIX                                                        
        boost_intrusive_default_type_##TNAME<T, TIMPL>::type                            
    //

#define BOOST_INTRUSIVE_HAS_TYPE(INSTANTIATION_NS_PREFIX, T, TNAME)  
    INSTANTIATION_NS_PREFIX                                        
        boost_intrusive_has_type_##TNAME<T>::value              
    //

#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)  
    template <typename T, typename DefaultType>                    

struct boost_intrusive_eval_default_type_ ## TNAME {
  
  template <typename X> 
  static char test(int, typename X::TNAME*); 

  template <typename X> 
  static int test(...); 

  struct DefaultWrap 
  { 
    typedef typename DefaultType::type TNAME; 
  }; 

  static const bool value = (1 == sizeof(test<T>(0, 0))); 

  typedef typename 
  ::boost::intrusive::detail::eval_if_c 
  < value, 
    ::boost::intrusive::detail::identity<T>, 
    ::boost::intrusive::detail::identity<DefaultWrap> 
  >::type::TNAME type; 
};

//
#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T, 
TNAME, TIMPL) 
  typename INSTANTIATION_NS_PREFIX 
  boost_intrusive_eval_default_type_ ## TNAME< T, TIMPL >::type 
//

#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX, 
TYPEDEF_TO_FIND) 
  template <class T> 
  struct TRAITS_PREFIX##_bool 
  { 
    template<bool Add> 
    struct two_or_three {yes_type _[2 + Add];};

    template <class U> static yes_type test(...);

    template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);

    static const std::size_t value = sizeof(test<T>(0));
  };

//
#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME,
FUNC_NAME) \ntemplate <typename U, typename Signature> \nclass TRAITS_NAME \n{ \nprivate: \ntemplate<Signature> struct helper;\ntemplate<typename T> \nstatic ::boost::intrusive::detail::yes_type test(helper<&T::FUNC_NAME>*); \ntemplate<typename T> static ::boost::intrusive::detail::no_type test(...); \npublic: \nstatic const bool value = sizeof(test<U>(0)) == sizeof(::boost::intrusive::detail::yes_type); \n}; \n//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) \ntemplate <typename Type> \nstruct TRAITS_NAME \n{ \nstruct BaseMixin \n{ \n  void FUNC_NAME(); \n}; \nstruct Base : public Type, public BaseMixin { Base(); }; \ntemplate <typename T, T t> class Helper{}; \ntemplate <typename U> \nstatic ::boost::intrusive::detail::no_type  test(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME>* = 0); \nstatic ::boost::intrusive::detail::yes_type test(...); \nstatic const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(test((Base*)(0))); \n};
//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME, FUNC_NAME) 
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME)
\n\ntemplate <typename Type, class> \nstruct TRAITS_NAME
  : public TRAITS_NAME##_ignore_signature<Type>
{ {};
//

} //namespace detail
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>
#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

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]
[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements for an [Integral Constant type](../../../../libs/mpl/doc/refmanual/integral-constant.html).

Please note that these types no longer inherit from `mpl::true_` or `mpl::false_` etc, and the library will no longer implicitly include any MPL header. However there is an implicit conversion from `integral_constant` to the corresponding MPL types, therefore tag-dispatching that uses MPL types in function overloads will still work as before.

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This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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All the value based traits in this library conform to MPL's requirements for an Integral Constant type.

Please note that these types no longer inherit from `mpl::true_` or `mpl::false_` etc, and the library will no longer implicitly include any MPL header. However there is an implicit conversion from `integral_constant` to the corresponding MPL types, therefore tag-dispatching that uses MPL types in function overloads will still work as before.
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var group__group_ext_mpl =
  [ // Copyright Louis Dionne 2013-2017
    [ "integral_c", "structboost_1_1mpl_1_1integral__c.html", null ],
    [ "list", "structboost_1_1mpl_1_1list.html", null ],
    [ "vector", "structboost_1_1mpl_1_1vector.html", null ]
  ];
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#include <boost/mpl/push_back.hpp>
#include <boost/mpl/vector.hpp>

template <int i>
struct t {
};

using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>;
int main() { }

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// http://www.boost.org/LICENSE_1_0.txt)


#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/workaround.hpp>
#include <boost/move/detail/mpl.hpp>
#include <cstddef>

namespace boost {
namespace container {
namespace dtl {

using boost::move_detail::integral_constant;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_
using boost::move_detail::identity;

}}}
using boost::move_detail::bool_;  
using boost::move_detail::true_;  
using boost::move_detail::false_;  
using boost::move_detail::yes_type;  
using boost::move_detail::no_type;  
using boost::move_detail::unvoid_ref;  
using boost::move_detail::and_;  
using boost::move_detail::or_;  
using boost::move_detail::not_;  
using boost::move_detail::enable_if_and;  
using boost::move_detail::disable_if_and;  
using boost::move_detail::enable_if_or;  
using boost::move_detail::disable_if_or;  

namespace boost { namespace move_detail {  

  template <class FirstType>  
  struct select1st  
  {  
    typedef FirstType type;  

    template<class T>  
    const type& operator()(const T& x) const  
    {  
      return x.first;  
    }  

    template<class T>  
    type& operator()(T& x)  
    {  
      return const_cast<type&>(x.first);  
    } 
  };

  template <class T, class=void>  
  struct is_transparent  
  {  
    static const bool value = false;  
  };

  template <class T>  
  struct is_transparent<T, typename T::is_transparent>  
  {  
    static const bool value = true;  
  };

  template <typename C, typename K, typename R>  
  struct enable_if_transparent  
  {  
    : boost::move_detail::enable_if_c<dtl::is_transparent<C>::value, R>  
    {};
  };

} // namespace boost::move_detail

} // namespace boost

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#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <cstdlib>

namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_; 
};

typedef bool_<true> true_;
typedef bool_<false> false_;
typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c
{
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template<
    bool C
    , typename T1
    , typename T2
> struct if_c
{
    typedef T1 type;
};

template<
    typename T1
    , typename T2
> struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
    , typename T2
    , typename T3
> struct if_c
typedef typename if_c<0 != T1::value, T2, T3>::type type;

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

}  //namespace ipcdetail {
}  //namespace interprocess {
}  //namespace boost {

#endif   //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

#!/usr/bin/env python
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
from operator import itemgetter
import re
import magic

def authors(filename):
    log = run(['git', 'log', '--follow', '--date=short', '--format=%aN%x09%ad', filename], universal_newlines=True)
    for line in log.splitlines():
        author, date = line.split('	')
        if author != 'fix-copyright.py':
            yield author, datetime.strptime(date, '%Y-%m-%d')

def new_copyright(filename, previous):
    def f():
        au = list(authors(filename))
all_dates = map(itemgetter(1), au)
aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
for author, records in groupby(aup, itemgetter(0)):
    dates = filter(None, map(itemgetter(1), records))
    if not dates: dates = alldates
    start = min(dates)
    end = max(dates)
    fmt = '{0}' if start.year == end.year else '{0}-{1}'
    line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + author
    key = (start, author)
    yield key, line
return map(itemgetter(1), sorted(f()))

def fix_copyright(filename):
    # Find copyright block in original file
    prefix = set()
    names = []
    lines = []
    with open(filename, 'r') as f:
        content = list(f)
        for i, line in enumerate(content[:15]):
            m = re.match(r'^(?P<prefix>\W*)(\(c\))? copyright(\(c\))? \d{4}(\s*-\s*\d{4})? \d+\P<name>.*\s*$', line, re.IGNORECASE)
            if m:
                d = m.groupdict()
                prefix.add(d['prefix'])
                lines.append(i)
                names.append(d['name'].strip())
        if len(prefix) != 1:
            print 'Not found:', filename
            return
        prefix = list(prefix)[0]
    print filename
    new = iter(new_copyright(filename, names))
    with open(filename, 'w') as f:
        for i, line in enumerate(content):
            if i in lines:
                for repl in new:
                    print >>f, prefix + repl
                else:
                    print >>f, line,
pass

def all_files():
    ls = run(['git', 'ls-files'], universal_newlines=True)
    for filename in ls.splitlines():
        if magic.from_file(filename, mime=True).split('/')[0] == 'text':

---

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yield filename

for f in all_files():
    fix_copyright(f)
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Maybe this should pass?

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-->
Adapters for Boost.MPL containers.

- **boost::mpl::integral_c< T, v >**
  - Adapter for IntegralConstants from the Boost.MPL.
  - More...

- **boost::mpl::list< T >**
  - Adapter for Boost.MPL lists.

- **boost::mpl::vector< T >**
  - Adapter for Boost.MPL vectors.

More...
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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 (martintauachmann@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(agle@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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#include <boost/mpl/fold.hpp>
#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/vector.hpp>

template <typename State, typename X>
struct f { using type = X; };

struct state {};

template <int i>
struct t {};

using vector = <mpl_vector((1..input_size).to_a.map { [n] "t<#{n}>" }) %>;;

using result = boost::mpl::fold<vector, state, boost::mpl::quote2<i>>::type;

int main() {}

///
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///

[#mpl]
# MPL Support, <boost/mp11/mpl.hpp>
:toc:
:toc-title:
:idprefix:

The header `boost/mp11/mpl.hpp`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple`
to be valid link: ../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

Boost.Geometry (aka GGL, Generic Geometry Library)

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#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f){}
private:
    split_path& operator=(const split_path&);
std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href="" << (p.root / p.file).string() << ">" << p.file.string() << "</a>";
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
    j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output.");
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os <<
        "<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN"">\n"<html>
    "<head>
    "<title>Boost Licence Dependency Information";
    if(m_module_list.size() == 1)
    {
        os << " for " "*(m_module_list.begin());
    }
    os <<
        "</title>\n"<head>\n"
"<body>
"<H1>Boost Licence Dependency Information</H1>
if(m_module_list.size() == 1)
{
    os << " for " \(\ast\)(m_module_list.begin());
}

os << "</H1>\n" "</H2>Contents</h2>\n"
"<pre>\nInput Information</a>\n";
if(!m_bsl_summary_mode)
    os << "Licence Summary</a>\n";
    os << "Licence Details</a>\n";

while(i != j)
{
    // title:
    os << " 
A href="#" make_link_target(licenses.first[i->first].license_name)
    <a href="#" licenses.first[i->first].license_name "</a>\n";
++i;
}

os << "Files with no recognised license</a>\n"
    "Files with no recognised copyright holder</a>\n";
if(!m_bsl_summary_mode)
{
    os << "Moving to the Boost Software License...\n"
    "Files that can be automatically converted to the Boost Software License</a>\n"
    "Files that can be manually converted to the Boost Software License</a>\n"
    "Files that can NOT be moved to the Boost Software License</a>\n"
    "Authors we need to move to the Boost Software License</a>\n"
    "Copyright Holder Information</a>\n";
}

os << "File Dependency Information</a>\n"
"</pre>";

//
// input Information:
//
os << "Input Information</h2>\n";
if(m_scan_mode)
    os << "The following files were scanned for boost dependencies:<BR>";
else
    os << "The following Boost modules were checked:<BR>";

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os << *si << "<BR>";
    ++si;
}
os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></p>";

// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex("^[[:blank:]*#][[:blank:]*define[[:blank:]*BOOST_VERSION[[:blank:]*+([^\d]+)]");
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 100 << "." << version % 100 << "</p>\n";
}

// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    // start with the summary:
    //
os << "<a name="summary"></a><h2>Licence Summary</h2>
    while(i != j)
    {
        // title:
os << "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
        // license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        // Copyright holders:
os << "<P>This license is used by " << i->second.authors.size()
            " authors and " << i->second.files.size()
            " files <a href="#" make_link_target(licenses.first[i->first].license_name) >> ">
        (see details)</a>";
os << "</P><P>\n";
    }
and now the details:

i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;

os << "<a name="details"></a><h2>Licence Details</h2>
{
    // title:
os << 
        "<H3><A name="" << make_link_target(licenses.first[i->first].license_name)
        ""></a>" << licenses.first[i->first].license_name << "</H3>\n";
    // license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    if(!m_bsl_summary_mode || (license_index >= 3))
    {
        // Copyright holders:
os << "<P>This license is used by the following " << i->second.authors.size() << " copyright
        holders:<P><BLOCKQUOTE><P>
            std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
    while(x != y)
    {
        os << *x << "<BR>\n";
        ++x;
    }
os << "</P></BLOCKQUOTE>\n";
        // Files using this license:
os << "<P>This license applies to the following " << i->second.files.size() << " files:
P><BLOCKQUOTE><P>
            std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
    while(m != n)
    {
        os << split_path(m_boost_path, *m) << "<hr>\n";
        ++m;
    }
os << "</P></BLOCKQUOTE>\n";
    }
else
{
    os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
}
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++license_index;
++i;
}
// Output list of files not found to be under license control:
//
// os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2><p>
"<p>The following " << m_unknown_licenses.size() << " files had no recognisable license information:
</p><BLOCKQUOTE><p>
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
";
    ++i2;
}
os << "</p></BLOCKQUOTE>";
//
// Output list of files with no found copyright holder:
//
// os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2><p>
"<p>The following " << m_unknown_authors.size() << " files had no recognisable copyright holder:
</p><BLOCKQUOTE><p>
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
";
    ++i2;
}
os << "</p></BLOCKQUOTE>";
if(!m_bsl_summary_mode)
{
    //
    // Output list of files that have been moved over to the Boost
    // Software License, along with enough information for human
    // verification.
    //
    os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software
License</h2><p>
"<p>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost
Software License, but require manual verification before they can be committed to CVS:
</p><BLOCKQUOTE><p>
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
::const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin().
ie = m_converted_to_bsl.end();
int file_num = 1;
while (i != ie)
{
    os << "<P>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first) << "</tt><br>
    <table border="1">
        <tr>
            <td><pre>" << i->second.first << "</pre></td>
            <td><pre>" << i->second.second << "</pre></td>
        </tr>
    </table>
" << ++i;
    ++file_num;
}

// Output list of files that could be moved over to the Boost Software License

os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>
" << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License, but have not yet been:
";
i2 = m_can_migrate_to_bsl.begin();
j2 = m_can_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << 
    ++i2;
}

os << 

// Output list of files that can not be moved over to the Boost Software License

os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2>
" << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:
";
i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << 
    ++i2;
}

os << 

// Output list of authors that we need permission for to move to the BSL

os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>
";

"<P>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>.
";
std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
        std::ostream_iterator<std::string>(os, "<br>\n"));
    os << "</p></BLOCKQUOTE>
";

// output a table of copyright information:

// os << "<H2><a name="copyright"></a>Copyright Holder Information</H2><table border="1"\n";
std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
    ad = m_author_data.begin();
ed = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << "</td><td>
";
        std::set<fs::path, path_less>::const_iterator fi, efi;
            fi = ad->second.begin();
edi = ad->second.end();
while(fi != efi)
{
            os << split_path(m_boost_path, *fi) << " 
";
                ++fi;
        }
    os << "</td></tr>\n";
        ++ad;
}
    os << "</table>\n";
}

// output file dependency information:

// os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = m_copy_paths.begin();
edi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
    std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
        ::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
edi = m_converted_to_bsl.end();
while(i != edi)
bad_paths.insert(i->first);
++i;
}
fi = bad_paths.begin();
efi = bad_paths.end();

os << "<P>For brevity, only files not under the BSL are shown</P>
";
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
        while(true)
        {
            os << " -> ";
            if(fs::exists(m_boost_path / dep->second))
                os << split_path(m_boost_path, dep->second);
            else if(fs::exists(dep->second))
                os << split_path(fs::path(), dep->second);
            else
                os << dep->second.string();
            if(seen_deps.find(dep->second) != seen_deps.end())
            {
                os << " <I>(Circular dependency!)</I>";
                break; // circular dependency!!!
            }
            seen_deps.insert(dep->second);
            last_dep = dep;
            dep = m_dependencies.find(dep->second);
            if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
                break;
        }
    os << "\n";
    ++fi;
}

os << "</pre></BLOCKQUOTE>\n";

os << "</body></html>";

if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ": .
    std::runtime_error e(msg);
boost::throw_exception(e);
}
}

1.440 libvmtools 10.0.7.52125 (build-3227872)

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

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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c4ff2bb5b6.

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

  Author: Julio Merino <jmmv84@gmail.com>

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

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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter. 
Note: Tuples cannot be directly destructured in method or function parameters. 
   Either create a single parameter accepting the Tuple2, 
   or consider a pattern matching anonymous function: `\{ case (a, b) => ... \}
val x: ((Int, Int) => Int) = (((a, b)) => a)
^

not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter. 
Note: Tuples cannot be directly destructured in method or function parameters. 
   Either create a single parameter accepting the Tuple2, 
   or consider a pattern matching anonymous function: `\{ case (param1, param2) => ... \}
val y: ((Int, Int, Int) => Int) = (((a, !!)) => a)
^

not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter. 
Note: Tuples cannot be directly destructured in method or function parameters. 
   Either create a single parameter accepting the Tuple3, 
   or consider a pattern matching anonymous function: `\{ case (param1, ..., param3) => ... \}
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
^

three errors found

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1.448 glibc  2.23  0ubuntu10

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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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Mersenne Twister
----------------

The `_random` module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html`. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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UUencode and UUdecode functions
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with python standard
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A. HISTORY OF THE SOFTWARE

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

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

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

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

the various releases.

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Footnotes:

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

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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Changes:
* added Debian GNU/Linux package maintenance system files
* at times, bug fixes awaiting inclusion in the upstream source

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doc/coreutils.texi (The GNU Coreutils Manual)
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* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/ssl/SslContextBuilder.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/ssl/OpenSslJavaxX509Certificate.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/ssl/ClientAuth.java
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* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/flow/package-info.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/ssl/PemPrivateKey.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/ssl/Java8SslUtils.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/ssl/DelegatingSslContext.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/flush/package-info.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/ssl/PemEncoded.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/ssl/PemX509Certificate.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/ssl/PemValue.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
jar/io/netty/handler/flush/FlushConsolidationHandler.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
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* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
jar/io/netty/handler/ssl/OpenSslTlsv13X509ExtendedTrustManager.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
jar/io/netty/handler/ssl/OpenSslSession.java
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  jar/io/netty/handler/traffic/AbstractTrafficShapingHandler.java
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* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/ssl/Conscrypt.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/ssl/Java9SslUtils.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/ssl/ssl/SsslCloseCompletionEvent.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/ssl/ssl/oscp/package-info.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/ssl/ssl/oscp/OcspClientHandler.java
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  jar/io/netty/handler/traffic/GlobalChannelTrafficShapingHandler.java

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  jar/io/netty/handler/logging/package-info.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/ssl/SslHandler.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/stream/ChunkedInput.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/stream/ChunkedStream.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/timeout/ReadTimeoutHandler.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/stream/ChunkedWriteHandler.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/timeout/ReadTimeoutException.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/ssl/package-info.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/stream/ChunkedWriteHandler.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/timeout/ReadTimeoutException.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/stream/package-info.java

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1.465 commons-dbcp Nightly-201602222004

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1.473 python 3.5.1-3
1.473.1 Available under license :

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This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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

A. HISTORY OF THE SOFTWARE

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

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

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1.474 jetty-http 9.1.4.v20140401

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1.476 curator-client 2.12.0

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Metadata-Version: 1.1
Name: setuptools
Version: 20.7.0
Summary: Easily download, build, install, upgrade, and uninstall Python packages
Home-page: https://github.com/pypa/setuptools
Author: Python Packaging Authority
Author-email: distutils-sig@python.org
License: UNKNOWN
Description: ================

Installing and Using Setuptools

.. contents:: **Table of Contents**

`Change History <https://pythonhosted.org/setuptools/history.html>`_.

Installation Instructions

The recommended way to bootstrap setuptools on any system is to download `ez_setup.py` and run it using the target Python environment. Different operating systems have different recommended techniques to accomplish this basic routine, so below are some examples to get you started.

Setuptools requires Python 2.6 or later. To install setuptools on Python 2.4 or Python 2.5, use the `bootstrap script for Setuptools 1.x`
The link provided to ez_setup.py is a bookmark to bootstrap script for the latest known stable release.

.. _ez_setup.py: https://bootstrap.pypa.io/ez_setup.py

Windows (Powershell 3 or later)

For best results, uninstall previous versions FIRST (see "Uninstalling").

Using Windows 8 (which includes PowerShell 3) or earlier versions of Windows with PowerShell 3 installed, it's possible to install with one simple PowerShell command. Start up Powershell and paste this command:

```powershell
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | python -
```

You must start the Powershell with Administrative privileges or you may choose to install a user-local installation:

```powershell
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | python - --user
```

If you have Python 3.3 or later, you can use the ``py`` command to install to different Python versions. For example, to install to Python 3.3 if you have Python 2.7 installed:

```powershell
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | py -3 -
```

The recommended way to install setuptools on Windows is to download `ez_setup.py` and run it. The script will download the appropriate distribution file and install it for you.

Once installation is complete, you will find an `easy_install` program in your Python `Scripts` subdirectory. For simple invocation and best results, add this directory to your `PATH` environment variable, if it is not already present. If you did a user-local install, the `Scripts` subdirectory is `\$env:APPDATA\Python\Scripts`.

Windows (simplified)

For Windows without PowerShell 3 or for installation without a command-line, download `ez_setup.py` using your preferred web browser or other technique and "run" that file.
Most Linux distributions come with wget.

Download `ez_setup.py` and run it using the target Python version. The script will download the appropriate version and install it for you:

```bash
> wget https://bootstrap.pypa.io/ez_setup.py -O - | python
```

Note that you will may need to invoke the command with superuser privileges to install to the system Python:

```bash
> wget https://bootstrap.pypa.io/ez_setup.py -O - | sudo python
```

Alternatively, Setuptools may be installed to a user-local path:

```bash
> wget https://bootstrap.pypa.io/ez_setup.py -O - | python --user
```

Note that on some older systems (noted on Debian 6 and CentOS 5 installations), `wget` may refuse to download `ez_setup.py`, complaining that the certificate common name `*.c.ssl.fastly.net` does not match the host name `bootstrap.pypa.io`. In addition, the `ez_setup.py` script may then encounter similar problems using `wget` internally to download `setuptools-x.y.zip`, complaining that the certificate common name of `www.python.org` does not match the host name `pypi.python.org`. Those are known issues, related to a bug in the older versions of `wget` (see Issue 59 <https://bitbucket.org/pypa/pypi/issue/59#comment-5881915>). If you happen to encounter them, install Setuptools as follows:

```bash
> wget --no-check-certificate https://bootstrap.pypa.io/ez_setup.py
> python ez_setup.py --insecure
```

Unix including Mac OS X (curl)

If your system has curl installed, follow the `wget` instructions but replace `wget` with `curl` and `--O` with `--o`. For example:

```bash
> curl https://bootstrap.pypa.io/ez_setup.py -o - | python
```

Advanced Installation

For more advanced installation options, such as installing to custom locations or prefixes, download and extract the source.
tarball from `Setuptools on PyPI <https://pypi.python.org/pypi/setuptools>`\_ and run setup.py with any supported distutils and Setuptools options.
For example::

```
setuptools-x.x$ python setup.py install --prefix=/opt/setuptools
```

Use ``--help`` to get a full options list, but we recommend consulting
the `EasyInstall manual`\_ for detailed instructions, especially `the section
on custom installation locations`\_.

.. _EasyInstall manual: https://pythonhosted.org/setuptools/EasyInstall
.. _the section on custom installation locations: https://pythonhosted.org/setuptools/EasyInstall#custom-installation-locations

Downloads
==========

All setuptools downloads can be found at `the project's home page in the Python Package Index`\_. Scroll to the very bottom of the page to find the links.

.. _the project's home page in the Python Package Index: https://pypi.python.org/pypi/setuptools

In addition to the PyPI downloads, the development version of `setuptools`\`
```
is available from the `Bitbucket repo`\_, and in-development versions of the
`0.6 branch`\_ are available as well.

.. _Bitbucket repo: https://bitbucket.org/pypa/setuptools/get/default.tar.gz#egg=setuptools-dev
.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

Uninstalling
============

On Windows, if Setuptools was installed using an `exe` or `msi`
installer, simply use the uninstall feature of `Add/Remove Programs` in the
Control Panel.

Otherwise, to uninstall Setuptools or Distribute, regardless of the Python
version, delete all `setuptools*` and `distribute*` files and
directories from your system's `site-packages` directory
(and any other `sys.path` directories) FIRST.

If you are upgrading or otherwise plan to re-install Setuptools or Distribute,
nothing further needs to be done. If you want to completely remove Setuptools,
you may also want to remove the `easy_install` and `easy_install-x.x` scripts
and associated executables installed to the Python scripts directory.

--------------------------------
Using Setuptools and EasyInstall

Here are some of the available manuals, tutorials, and other resources for learning about Setuptools, Python Eggs, and EasyInstall:

* `The EasyInstall user's guide and reference manual`_
* `The setuptools Developer's Guide`_
* `The pkg_resources API reference`_
* `The Internal Structure of Python Eggs`_

Questions, comments, and bug reports should be directed to the `distutils-sig mailing list`_. If you have written (or know of) any tutorials, documentation, plug-ins, or other resources for setuptools users, please let us know about them there, so this reference list can be updated. If you have working, *tested* patches to correct problems or add features, you may submit them to the `setuptools bug tracker`_.

.. _setuptools bug tracker: https://github.com/pypa/setuptools/issues
.. _The Internal Structure of Python Eggs: https://pythonhosted.org/setuptools/formats.html
.. _The pkg_resources API reference: https://pythonhosted.org/setuptools/pkg_resources.html
.. _The EasyInstall user's guide and reference manual: https://pythonhosted.org/setuptools/easy_install.html
.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/

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Credits
-------

* The original design for the ``.egg` format and the ``.pkg_resources` API was co-created by Phillip Eby and Bob Ippolito. Bob also implemented the first version of ``.pkg_resources`, and supplied the OS X operating system version compatibility algorithm.

* Ian Bicking implemented many early "creature comfort" features of easy_install, including support for downloading via Sourceforge and Subversion repositories. Ian's comments on the Web-SIG about WSGI application deployment also inspired the concept of "entry points" in eggs, and he has given talks at PyCon and elsewhere to inform and educate the community about eggs and setuptools.

* Jim Fulton contributed time and effort to build automated tests of various aspects of ``.easy_install```, and supplied the doctests for the command-line `.exe` wrappers on Windows.

* Phillip J. Eby is the seminal author of setuptools, and first proposed the idea of an importable binary distribution format for
Python application plug-ins.

* Significant parts of the implementation of setuptools were funded by the Open Source Applications Foundation, to provide a plug-in infrastructure for the Chandler PIM application. In addition, many OSAF staffers (such as Mike "Code Bear" Taylor) contributed their time and stress as guinea pigs for the use of eggs and setuptools, even before eggs were "cool". (Thanks, guys!)

* Tarek Ziad is the principal author of the Distribute fork, which re-invigorated the community on the project, encouraged renewed innovation, and addressed many defects.

* Since the merge with Distribute, Jason R. Coombs is the maintainer of setuptools. The project is maintained in coordination with the Python Packaging Authority (PyPA) and the larger Python community.

.. _files:

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

Everyone interacting in the setuptools project's codebases, issue trackers, chat rooms, and mailing lists is expected to follow the `PyPA Code of Conduct`_.


Keywords: CPAN PyPI distutils eggs package management
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
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Classifier: Programming Language :: Python :: 3.5
Classifier: Topic :: Software Development :: Libraries :: Python Modules
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==================================================================
Building and Distributing Packages with Setuptools
==================================================================

``Setuptools`` is a collection of enhancements to the Python `distutils`
(for Python 2.6 and up) that allow developers to more easily build and
distribute Python packages, especially ones that have dependencies on other
packages.

Packages built and distributed using ``setuptools`` look to the user like
ordinary Python packages based on the ``distutils``. Your users don't need to
install or even know about setuptools in order to use them, and you don't
have to include the entire setuptools package in your distributions. By
including just a single `bootstrap module` (a 12K .py file), your package will
automatically download and install ``setuptools`` if the user is building your
package from source and doesn't have a suitable version already installed.

.. _bootstrap module: https://bootstrap.pypa.io/ez_setup.py

Feature Highlights:

* Automatically find/download/install/upgrade dependencies at build time using
  the `EasyInstall tool <easy_install.html>`_,
  which supports downloading via HTTP, FTP, Subversion, and SourceForge, and
  automatically scans web pages linked from PyPI to find download links. (It's
  the closest thing to CPAN currently available for Python.)

* Create `Python Eggs <http://peak.telecommunity.com/DevCenter/PythonEggs>`_, a single-file importable distribution format

* Enhanced support for accessing data files hosted in zipped packages.
* Automatically include all packages in your source tree, without listing them individually in setup.py

* Automatically include all relevant files in your source distributions, without needing to create a `MANIFEST.in` file, and without having to force regeneration of the `MANIFEST` file when your source tree changes.

* Automatically generate wrapper scripts or Windows (console and GUI) .exe files for any number of "main" functions in your project. (Note: this is not a py2exe replacement; the .exe files rely on the local Python installation.)

* Transparent Pyrex support, so that your setup.py can list `.pyx` files and still work even when the end-user doesn't have Pyrex installed (as long as you include the Pyrex-generated C in your source distribution)

* Command aliases - create project-specific, per-user, or site-wide shortcut names for commonly used commands and options

* PyPI upload support - upload your source distributions and eggs to PyPI

* Deploy your project in "development mode", such that it's available on `sys.path`, yet can still be edited directly from its source checkout.

* Easily extend the distutils with new commands or `setup()` arguments, and distribute/reuse your extensions for multiple projects, without copying code.

* Create extensible applications and frameworks that automatically discover extensions, using simple "entry points" declared in a project's setup script.

In addition to the PyPI downloads, the development version of `setuptools` is available from the `Python SVN sandbox`, and in-development versions of the `0.6 branch` are available as well.

.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

.. _Python SVN sandbox: http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev

.. contents:: **Table of Contents**

.. _ez_setup.py: `bootstrap module`_

Developer's Guide

------------------
Installing `setuptools`

Please follow the `EasyInstall Installation Instructions`_ to install the current stable version of setuptools. In particular, be sure to read the section on `Custom Installation Locations`_ if you are installing anywhere other than Python's `site-packages` directory.

.. _EasyInstall Installation Instructions: easy_install.html#installation-instructions

.. _Custom Installation Locations: easy_install.html#custom-installation-locations

If you want the current in-development version of setuptools, you should first install a stable version, and then run:

```bash
ez_setup.py setuptools==dev
```

This will download and install the latest development (i.e. unstable) version of setuptools from the Python Subversion sandbox.

### Basic Use

For basic use of setuptools, just import things from setuptools instead of the distutils. Here's a minimal setup script using setuptools:

```python
from setuptools import setup, find_packages
setup(
    name = "HelloWorld",
    version = "0.1",
    packages = find_packages(),
)
```

As you can see, it doesn't take much to use setuptools in a project. Run that script in your project folder, alongside the Python packages you have developed.

Invoke that script to produce eggs, upload to PyPI, and automatically include all packages in the directory where the setup.py lives. See the `Command Reference`_ section below to see what commands you can give to this setup script. For example, to produce a source distribution, simply invoke:

```bash
python setup.py sdist
```

Of course, before you release your project to PyPI, you'll want to add a bit more information to your setup script to help people find or learn about your
project. And maybe your project will have grown by then to include a few
dependencies, and perhaps some data files and scripts:

    from setuptools import setup, find_packages
    setup(
        name = "HelloWorld",
        version = "0.1",
        packages = find_packages(),
        scripts = ['say_hello.py'],

        # Project uses reStructuredText, so ensure that the docutils get
        # installed or upgraded on the target machine
        install_requires = ['docutils>=0.3'],

        package_data = {
            # If any package contains *.txt or *.rst files, include them:
            '*': ['*.txt', '*.rst'],
            # And include any *.msg files found in the 'hello' package, too:
            'hello': ['*.msg'],
        },

        # metadata for upload to PyPI
        author = "Me",
        author_email = "me@example.com",
        description = "This is an Example Package",
        license = "PSF",
        keywords = "hello world example examples",
        url = "http://example.com/HelloWorld/",  # project home page, if any

        # could also include long_description, download_url, classifiers, etc.
    )

In the sections that follow, we'll explain what most of these ``setup()``
arguments do (except for the metadata ones), and the various ways you might use
them in your own project(s).

Specifying Your Project's Version
---------------------------------

Setuptools can work well with most versioning schemes; there are, however, a
few special things to watch out for, in order to ensure that setuptools and
EasyInstall can always tell what version of your package is newer than another
version. Knowing these things will also help you correctly specify what
versions of other projects your project depends on.

A version consists of an alternating series of release numbers and pre-release
or post-release tags. A release number is a series of digits punctuated by
Each series of digits is treated numerically, so releases ``2.1`` and ``2.1.0`` are different ways to spell the same release number, denoting the first subrelease of release 2. But ``2.10`` is the *tenth* subrelease of release 2, and so is a different and newer release from ``2.1`` or ``2.1.0``. Leading zeros within a series of digits are also ignored, so ``2.01`` is the same as ``2.1``, and different from ``2.0.1``.

Following a release number, you can have either a pre-release or post-release tag. Pre-release tags make a version be considered *older* than the version they are appended to. So, revision ``2.4`` is *newer* than revision ``2.4c1``, which in turn is newer than ``2.4b1`` or ``2.4a1``. Postrelease tags make a version be considered *newer* than the version they are appended to. So, revisions like ``2.4-1`` and ``2.4pl3`` are newer than ``2.4``, but are *older* than ``2.4.1`` (which has a higher release number).

A pre-release tag is a series of letters that are alphabetically before "final". Some examples of prerelease tags would include "alpha", "beta", "a", "c", "dev", and so on. You do not have to place a dot or dash before the prerelease tag if it's immediately after a number, but it's okay to do so if you prefer. Thus, ``2.4c1`` and ``2.4.c1`` and ``2.4-c1`` all represent release candidate 1 of version ``2.4``, and are treated as identical by setuptools.

In addition, there are three special prerelease tags that are treated as if they were the letter "c": "pre", "preview", and "rc". So, version ``2.4rc1``, ``2.4pre1`` and ``2.4preview1`` are all the exact same version as ``2.4c1``. and are treated as identical by setuptools.

A post-release tag is either a series of letters that are alphabetically greater than or equal to "final", or a dash (``-``). Post-release tags are generally used to separate patch numbers, port numbers, build numbers, revision numbers, or date stamps from the release number. For example, the version ``2.4-r1263`` might denote Subversion revision 1263 of a post-release patch of version ``2.4``. Or you might use ``2.4-20051127`` to denote a date-stamped post-release.

Notice that after each pre or post-release tag, you are free to place another release number, followed again by more pre- or post-release tags. For example, ``0.6a9.dev-r41475`` could denote Subversion revision 41475 of the in-development version of the ninth alpha of release 0.6. Notice that ``dev`` is a pre-release tag, so this version is a *lower* version number than ``0.6a9``. which would be the actual ninth alpha of release 0.6. But the ``-r41475`` is a post-release tag, so this version is *newer* than ``0.6a9.dev``.

For the most part, setuptools' interpretation of version numbers is intuitive, but here are a few tips that will keep you out of trouble in the corner cases:

* Don't stick adjoining pre-release tags together without a dot or number
between them. Version "1.9adev" is the "adev" prerelease of "1.9", *not* a development pre-release of "1.9a". Use "1.9a.dev" instead, as in "1.9a.dev", or separate the prerelease tags with a number, as in "1.9a0dev", "1.9a.dev", "1.9a0dev", and even "1.9.a.dev" are identical versions from setuptools' point of view, so you can use whatever scheme you prefer.

* If you want to be certain that your chosen numbering scheme works the way you think it will, you can use the "pkg_resources.parse_version()" function to compare different version numbers::

    >>> from pkg_resources import parse_version
    >>> parse_version('1.9.a.dev') == parse_version('1.9a0dev')
    True
    >>> parse_version('2.1-rc2') < parse_version('2.1')
    True
    >>> parse_version('0.6a9dev-r41475') < parse_version('0.6a9')
    True

Once you've decided on a version numbering scheme for your project, you can have setuptools automatically tag your in-development releases with various pre- or post-release tags. See the following sections for more details:

* `Tagging and "Daily Build" or "Snapshot" Releases`_
* `Managing "Continuous Releases" Using Subversion`_
* The `egg_info`_

New and Changed `setup()` Keywords
====================================

The following keyword arguments to `setup()` are added or changed by setuptools. All of them are optional; you do not have to supply them unless you need the associated setuptools feature.

``include_package_data``
If set to `True`, this tells setuptools to automatically include any data files it finds inside your package directories that are specified by your `MANIFEST.in` file. For more information, see the section below on Including Data Files.

``exclude_package_data``
A dictionary mapping package names to lists of glob patterns that should be excluded from your package directories. You can use this to trim back any excess files included by `include_package_data`. For a complete description and examples, see the section below on Including Data Files.

``package_data``

---

Open Source Used In HyperFlex HX Data Platform 4.5(2d) 4661
A dictionary mapping package names to lists of glob patterns. For a complete description and examples, see the section below on `Including Data Files`. You do not need to use this option if you are using `include_package_data`, unless you need to add e.g. files that are generated by your setup script and build process. (And are therefore not in source control or are files that you don't want to include in your source distribution.)

``zip_safe``
A boolean (True or False) flag specifying whether the project can be safely installed and run from a zip file. If this argument is not supplied, the `bdist_egg` command will have to analyze all of your project's contents for possible problems each time it builds an egg.

``install_requires``
A string or list of strings specifying what other distributions need to be installed when this one is. See the section below on `Declaring Dependencies` for details and examples of the format of this argument.

``entry_points``
A dictionary mapping entry point group names to strings or lists of strings defining the entry points. Entry points are used to support dynamic discovery of services or plugins provided by a project. See `Dynamic Discovery of Services and Plugins` for details and examples of the format of this argument. In addition, this keyword is used to support `Automatic Script Creation`.

``extras_require``
A dictionary mapping names of "extras" (optional features of your project) to strings or lists of strings specifying what other distributions must be installed to support those features. See the section below on `Declaring Dependencies` for details and examples of the format of this argument.

``setup_requires``
A string or list of strings specifying what other distributions need to be present in order for the `setup script* to run. `setuptools` will attempt to obtain these (even going so far as to download them using `EasyInstall`) before processing the rest of the setup script or commands. This argument is needed if you are using distutils extensions as part of your build process; for example, extensions that process setup() arguments and turn them into EGG-INFO metadata files.

(Note: projects listed in `setup_requires` will NOT be automatically installed on the system where the setup script is being run. They are simply downloaded to the `.eggs` directory if they’re not locally available already. If you want them to be installed, as well as being available when the setup script is run, you should add them to `install_requires` **and** `setup_requires`.)
``dependency_links``
A list of strings naming URLs to be searched when satisfying dependencies. These links will be used if needed to install packages specified by ``setup_requires`` or ``tests_require``. They will also be written into the egg's metadata for use by tools like EasyInstall to use when installing an `.egg` file.

``namespace_packages``
A list of strings naming the project's "namespace packages". A namespace package is a package that may be split across multiple project distributions. For example, Zope 3's `zope` package is a namespace package, because subpackages like `zope.interface` and `zope.publisher` may be distributed separately. The egg runtime system can automatically merge such subpackages into a single parent package at runtime, as long as you declare them in each project that contains any subpackages of the namespace package, and as long as the namespace package's `__init__.py` does not contain any code other than a namespace declaration. See the section below on `Namespace Packages` for more information.

``test_suite``
A string naming a `unittest.TestCase` subclass (or a package or module containing one or more of them, or a method of such a subclass), or naming a function that can be called with no arguments and returns a `unittest.TestSuite`. If the named suite is a module, and the module has an `additional_tests()` function, it is called and the results are added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite.

Specifying this argument enables use of the `test` command to run the specified test suite, e.g. via `setup.py test`. See the section on the `test` command below for more details.

``tests_require``
If your project's tests need one or more additional packages besides those needed to install it, you can use this option to specify them. It should be a string or list of strings specifying what other distributions need to be present for the package's tests to run. When you run the `test` command, `setuptools` will attempt to obtain these (even going so far as to download them using `EasyInstall`). Note that these required projects will *not* be installed on the system where the tests are run, but only downloaded to the project's setup directory if they're not already installed locally.

.. _test_loader:

``test_loader``
If you would like to use a different way of finding tests to run than what
setuptools normally uses, you can specify a module name and class name in this argument. The named class must be instantiable with no arguments, and its instances must support the `loadTestsFromNames()` method as defined in the Python `unittest` module's `TestLoader` class. Setuptools will pass only one test “name” in the ‘names’ argument; the value supplied for the ‘test_suite’ argument. The loader you specify may interpret this string in any way it likes, as there are no restrictions on what may be contained in a ‘test_suite’ string.

The module name and class name must be separated by a ‘:’. The default value of this argument is `setuptools.command.test:ScanningLoader`. If you want to use the default `unittest` behavior, you can specify `unittest:TestLoader` as your `test_loader` argument instead. This will prevent automatic scanning of submodules and subpackages.

The module and class you specify here may be contained in another package, as long as you use the ‘tests_require’ option to ensure that the package containing the loader class is available when the ‘test’ command is run.

``eager_resources``

A list of strings naming resources that should be extracted together, if any of them is needed, or if any C extensions included in the project are imported. This argument is only useful if the project will be installed as a zipfile, and there is a need to have all of the listed resources be extracted to the filesystem *as a unit*. Resources listed here should be ‘/’-separated paths, relative to the source root, so to list a resource `foo.png` in package `bar.baz`, you would include the string `bar/baz/foo.png` in this argument.

If you only need to obtain resources one at a time, or you don’t have any C extensions that access other files in the project (such as data files or shared libraries), you probably do NOT need this argument and shouldn’t mess with it. For more details on how this argument works, see the section below on ‘Automatic Resource Extraction’.

``use_2to3``

Convert the source code from Python 2 to Python 3 with 2to3 during the build process. See :doc:`python3` for more details.

``convert_2to3_doctests``

List of doctest source files that need to be converted with 2to3.
See :doc:`python3` for more details.

``use_2to3_fixers``

A list of modules to search for additional fixers to be used during the 2to3 conversion. See :doc:`python3` for more details.
Using `find_packages()`

For simple projects, it's usually easy enough to manually add packages to the `packages` argument of `setup()`. However, for very large projects (Twisted, PEAK, Zope, Chandler, etc.), it can be a big burden to keep the package list updated. That's what `setuptools.find_packages()` is for.

`find_packages()` takes a source directory and two lists of package name patterns to exclude and include. If omitted, the source directory defaults to the same directory as the setup script. Some projects use a `src` or `lib` directory as the root of their source tree, and those projects would of course use ```src``` or ```lib``` as the first argument to `find_packages()`. (And such projects also need something like ```package_dir = {'':'src''}`` in their `setup()` arguments, but that's just a normal distutils thing.)

Anyway, `find_packages()` walks the target directory, filtering by inclusion patterns, and finds Python packages (any directory). On Python 3.2 and earlier, packages are only recognized if they include an ```__init__.py``` file. Finally, exclusion patterns are applied to remove matching packages.

Inclusion and exclusion patterns are package names, optionally including wildcards. For example, `find_packages(exclude=['*.tests'])` will exclude all packages whose last name part is `tests`. Or, `find_packages(exclude=['*.tests', '*.tests.*'])` will also exclude any subpackages of packages named `tests`, but it still won't exclude a top-level `tests` package or the children thereof. In fact, if you really want no `tests` packages at all, you'll need something like this:

```
find_packages(exclude=['*.tests', '*.tests.*', 'tests.*', 'tests'])
```

in order to cover all the bases. Really, the exclusion patterns are intended to cover simpler use cases than this, like excluding a single, specified package and its subpackages.

Regardless of the parameters, the `find_packages()` function returns a list of package names suitable for use as the `packages` argument to `setup()`, and so is usually the easiest way to set that argument in your setup script. Especially since it frees you from having to remember to modify your setup script whenever your project grows additional top-level packages or subpackages.

Automatic Script Creation

================================
Packaging and installing scripts can be a bit awkward with the distutils. For one thing, there's no easy way to have a script's filename match local conventions on both Windows and POSIX platforms. For another, you often have to create a separate file just for the "main" script, when your actual "main" is a function in a module somewhere. And even in Python 2.4, using the ``-m`` option only works for actual ``.py`` files that aren't installed in a package.

``setuptools`` fixes all of these problems by automatically generating scripts for you with the correct extension, and on Windows it will even create an ``.exe`` file so that users don't have to change their "PATHEXT" settings. The way to use this feature is to define "entry points" in your setup script that indicate what function the generated script should import and run. For example, to create two console scripts called ``foo`` and ``bar``, and a GUI script called ``baz``, you might do something like this:--

```python
setup(
    # other arguments here...
    entry_points={
        'console_scripts': [
            'foo = my_package.some_module:main_func',
            'bar = other_module:some_func',
        ],
        'gui_scripts': [
            'baz = my_package_gui:start_func',
        ]
    }
)
```

When this project is installed on non-Windows platforms (using "setup.py install", "setup.py develop", or by using EasyInstall), a set of ``foo``, ``bar``, and ``baz`` scripts will be installed that import ``main_func`` and ``some_func`` from the specified modules. The functions you specify are called with no arguments, and their return value is passed to ``sys.exit()``
so you can return an errorlevel or message to print to stderr.

On Windows, a set of ``foo.exe``, ``bar.exe``, and ``baz.exe`` launchers are created, alongside a set of ``foo.py``, ``bar.py``, and ``baz.pyw`` files. The ``.exe`` wrappers find and execute the right version of Python to run the ``.py`` or ``.pyw`` file.

You may define as many "console script" and "gui script" entry points as you like, and each one can optionally specify "extras" that it depends on, that will be added to ``sys.path`` when the script is run. For more information on "extras", see the section below on 'Declaring Extras'. For more information on "entry points" in general, see the section below on 'Dynamic Discovery of Services and Plugins'.

"Eggsecutable" Scripts

Occasionally, there are situations where it's desirable to make an `.egg` file directly executable. You can do this by including an entry point such as the following::

```python
setup(
    # other arguments here...
    entry_points = {
        'setuptools.installation': [
            'eggsecutable = my_package.some_module:main_func',
        ]
    }
)
```

Any eggs built from the above setup script will include a short executable prelude that imports and calls `main_func()` from `my_package.some_module`. The prelude can be run on Unix-like platforms (including Mac and Linux) by invoking the egg with `/bin/sh`, or by enabling execute permissions on the `.egg` file. For the executable prelude to run, the appropriate version of Python must be available via the `PATH` environment variable, under its "long" name. That is, if the egg is built for Python 2.3, there must be a `python2.3` executable present in a directory on `PATH`.

This feature is primarily intended to support ez_setup the installation of setuptools itself on non-Windows platforms, but may also be useful for other projects as well.

IMPORTANT NOTE: Eggs with an "eggsecutable" header cannot be renamed, or invoked via symlinks. They *must* be invoked using their original filename, in order to ensure that, once running, `pkg_resources` will know what project and version is in use. The header script will check this and exit with an error if the `.egg` file has been renamed or is invoked via a symlink that changes its base name.

Declaring Dependencies

``setuptools`` supports automatically installing dependencies when a package is installed, and including information about dependencies in Python Eggs (so that package management tools like EasyInstall can use the information).

``setuptools`` and `pkg_resources` use a common syntax for specifying a project's required dependencies. This syntax consists of a project's PyPI name, optionally followed by a comma-separated list of "extras" in square brackets, optionally followed by a comma-separated list of version
Version specifiers for a given project are internally sorted into ascending version order, and used to establish what ranges of versions are acceptable. Adjacent redundant conditions are also consolidated (e.g. ">1, >2" becomes ">1"), and "<2, <3" becomes "><3". "!=" versions are excised from the ranges they fall within. A project's version is then checked for membership in the resulting ranges. (Note that providing conflicting conditions for the same version (e.g. "<2,>=2" or "==2, !=2") is meaningless and may therefore produce bizarre results.)

Here are some example requirement specifiers:

```
docutils >= 0.3

# comment lines and \ continuations are allowed in requirement strings
BazSpam ==1.1, ==1.2, ==1.3, ==1.4, ==1.5, 
==1.6, ==1.7 # and so are line-end comments

PEAK[FastCGI, reST]>=0.5a4

setuptools==0.5a7
```

The simplest way to include requirement specifiers is to use the ``install_requires`` argument to ``setup()``. It takes a string or list of strings containing requirement specifiers. If you include more than one requirement in a string, each requirement must begin on a new line.

This has three effects:

1. When your project is installed, either by using EasyInstall, `setup.py install` or `setup.py develop`, all of the dependencies not already installed will be located (via PyPI), downloaded, built (if necessary), and installed.

2. Any scripts in your project will be installed with wrappers that verify the availability of the specified dependencies at runtime, and ensure that the correct versions are added to `sys.path` (e.g. if multiple versions have been installed).

3. Python Egg distributions will include a metadata file listing the dependencies.

Note, by the way, that if you declare your dependencies in `setup.py`, you do *not* need to use the `require()` function in your scripts or modules, as
long as you either install the project or use ``setup.py develop`` to do
development work on it. (See ""Development Mode"" below for more details on
using ``setup.py develop``.)

Dependencies that aren't in PyPI
--------------------------------

If your project depends on packages that aren't registered in PyPI, you may
still be able to depend on them, as long as they are available for download as:

- an egg, in the standard distutils ``sdist`` format,
- a single ``.py`` file, or
- a VCS repository (Subversion, Mercurial, or Git).

You just need to add some URLs to the ``dependency_links`` argument to
``setup()``.

The URLs must be either:

1. direct download URLs,
2. the URLs of web pages that contain direct download links, or
3. the repository's URL

In general, it's better to link to web pages, because it is usually less
complex to update a web page than to release a new version of your project.
You can also use a SourceForge ``showfiles.php`` link in the case where a
package you depend on is distributed via SourceForge.

If you depend on a package that's distributed as a single ``.py`` file, you
must include an ``#egg=project-version`` suffix to the URL, to give a project
name and version number. (Be sure to escape any dashes in the name or version
by replacing them with underscores.) EasyInstall will recognize this suffix
and automatically create a trivial ``setup.py`` to wrap the single ``.py`` file
as an egg.

In the case of a VCS checkout, you should also append ``#egg=project-version``
in order to identify for what package that checkout should be used. You can
append ``@REV`` to the URL's path (before the fragment) to specify a revision.
Additionally, you can also force the VCS being used by prepending the URL with
a certain prefix. Currently available are:

- ``svn+URL`` for Subversion,
- ``git+URL`` for Git, and
- ``hg+URL`` for Mercurial

A more complete example would be:
``vcs+proto://host/path@revision#egg=project-version``

Be careful with the version. It should match the one inside the project files. If you want to disregard the version, you have to omit it both in the `requires` and in the URL's fragment.

This will do a checkout (or a clone, in Git and Mercurial parlance) to a temporary folder and run `setup.py bdist_egg`.

The `dependency_links` option takes the form of a list of URL strings. For example, the below will cause EasyInstall to search the specified page for eggs or source distributions, if the package's dependencies aren't already installed:

```python
setup(
    ...
    dependency_links = [
        "http://peak.telecommunity.com/snapshots/
    ],
)
```

.. _Declaring Extras:

Declaring "Extras" (optional features with their own dependencies)
------------------------------------------------------------------

Sometimes a project has "recommended" dependencies, that are not required for all uses of the project. For example, a project might offer optional PDF output if ReportLab is installed, and reStructuredText support if docutils is installed. These optional features are called "extras", and setuptools allows you to define their requirements as well. In this way, other projects that require these optional features can force the additional requirements to be installed, by naming the desired extras in their `install_requires`.

For example, let's say that Project A offers optional PDF and reST support:

```python
setup(
    name="Project-A",
    ...
    extras_require = {
        'PDF': ['ReportLab>=1.2', "RXP"],
        'reST': ['docutils>=0.3'],
    }
)
```
As you can see, the `extras_require` argument takes a dictionary mapping names of "extra" features, to strings or lists of strings describing those features' requirements. These requirements will *not* be automatically installed unless another package depends on them (directly or indirectly) by including the desired "extras" in square brackets after the associated project name. (Or if the extras were listed in a requirement spec on the EasyInstall command line.)

Extras can be used by a project's `entry_points` to specify dynamic dependencies. For example, if Project A includes a "rst2pdf" script, it might declare it like this, so that the "PDF" requirements are only resolved if the "rst2pdf" script is run::

```python
setup(
    name="Project-A",
    ...
    entry_points = {
        'console_scripts': [
            'rst2pdf = project_a.tools.pdfgen [PDF]',
            'rst2html = project_a.tools.htmlgen',
            # more script entry points ...
        ],
    },
)
```

Projects can also use another project's extras when specifying dependencies. For example, if project B needs "project A" with PDF support installed, it might declare the dependency like this::

```python
setup(
    name="Project-B",
    install_requires = ['Project-A[PDF]'],
    ...
)
```

This will cause ReportLab to be installed along with project A, if project B is installed -- even if project A was already installed. In this way, a project can encapsulate groups of optional "downstream dependencies" under a feature name, so that packages that depend on it don't have to know what the downstream dependencies are. If a later version of Project A builds in PDF support and no longer needs ReportLab, or if it ends up needing other dependencies besides ReportLab in order to provide PDF support, Project B's setup information does not need to change, but the right packages will still be installed if needed.

Note, by the way, that if a project ends up not needing any other packages to support a feature, it should keep an empty requirements list for that feature in its `extras_require` argument, so that packages depending on that feature don't break (due to an invalid feature name). For example, if Project A above
builds in PDF support and no longer needs ReportLab, it could change its setup to this::

```python
setup(
    name="Project-A",
    ...
    extras_require = {
        'PDF': [],
        'reST': ['docutils>=0.3'],
    }
)
```

so that Package B doesn't have to remove the `\[PDF\]` from its requirement specifier.

Including Data Files
====================

The distutils have traditionally allowed installation of "data files", which are placed in a platform-specific location. However, the most common use case for data files distributed with a package is for use *by* the package, usually by including the data files in the package directory.

Setuptools offers three ways to specify data files to be included in your packages. First, you can simply use the `\include_package_data` keyword, e.g.::

```python
from setuptools import setup, find_packages
setup(
    ...
    include_package_data = True
)
```

This tells setuptools to install any data files it finds in your packages. The data files must be specified via the `MANIFEST.in` file. (They can also be tracked by a revision control system, using an appropriate plugin. See the section below on `Adding Support for Revision Control Systems`_ for information on how to write such plugins.)

If you want finer-grained control over what files are included (for example, if you have documentation files in your package directories and want to exclude them from installation), then you can also use the `\package_data` keyword, e.g.::

```python
from setuptools import setup, find_packages
setup(
    ...
)
package_data = {
    # If any package contains *.txt or *.rst files, include them:
    ": ["*.txt", "*.rst"],
    # And include any *.msg files found in the 'hello' package, too:
    'hello': ["*.msg"],
}
}

The `package_data` argument is a dictionary that maps from package names to lists of glob patterns. The globs may include subdirectory names, if the data files are contained in a subdirectory of the package. For example, if the package tree looks like this:

```
setup.py
src/
  mypkg/
    __init__.py
    mypkg.txt
  data/
    somefile.dat
    otherdata.dat
```

The setuptools setup file might look like this:

```
from setuptools import setup, find_packages
setup(
...
    packages = find_packages('src'),  # include all packages under src
    package_dir = {'': 'src'},   # tell distutils packages are under src
    package_data = {
        # If any package contains *.txt files, include them:
        ": ["*.txt"],
        # And include any *.dat files found in the 'data' subdirectory
        # of the 'mypkg' package, also:
        'mypkg': ["data/*.dat"],
    }
)
```

Notice that if you list patterns in `package_data` under the empty string, these patterns are used to find files in every package, even ones that also have their own patterns listed. Thus, in the above example, the `mypkg.txt` file gets included even though it’s not listed in the patterns for `mypkg`.

Also notice that if you use paths, you *must* use a forward slash (`/`) as the path separator, even if you are on Windows. Setuptools automatically converts slashes to appropriate platform-specific separators at build time.
(Note: although the `package_data` argument was previously only available in `setuptools`, it was also added to the Python `distutils` package as of Python 2.4; there is some documentation for the feature available on the python.org website. If using the setuptools-specific `package_data` argument, files specified by `package_data` will not be automatically added to the manifest unless they are listed in the MANIFEST.in file.)

__ [http://docs.python.org/dist/node11.html](http://docs.python.org/dist/node11.html)

Sometimes, the `include_package_data` or `package_data` options alone aren't sufficient to precisely define what files you want included. For example, you may want to include package README files in your revision control system and source distributions, but exclude them from being installed. So, setuptools offers an `exclude_package_data` option as well, that allows you to do things like this:

```python
from setuptools import setup, find_packages

setup(
    ...
    packages = find_packages('src'), # include all packages under src
    package_dir = {':': 'src'},     # tell distutils packages are under src

    include_package_data = True,   # include everything in source control

    # ...but exclude README.txt from all packages
    exclude_package_data = {':': ['README.txt']},
)
```

The `exclude_package_data` option is a dictionary mapping package names to lists of wildcard patterns, just like the `package_data` option. And, just as with that option, a key of `''` will apply the given pattern(s) to all packages. However, any files that match these patterns will be excluded from installation, even if they were listed in `package_data` or were included as a result of using `include_package_data`.

In summary, the three options allow you to:

`include_package_data`
Accept all data files and directories matched by `MANIFEST.in`.

`package_data`
Specify additional patterns to match files and directories that may or may not be matched by `MANIFEST.in` or found in source control.

`exclude_package_data`
Specify patterns for data files and directories that should *not* be included when a package is installed, even if they would otherwise have been included due to the use of the preceding options.
NOTE: Due to the way the distutils build process works, a data file that you include in your project and then stop including may be "orphaned" in your project's build directories, requiring you to run `setup.py clean --all` to fully remove them. This may also be important for your users and contributors if they track intermediate revisions of your project using Subversion; be sure to let them know when you make changes that remove files from inclusion so they can run `setup.py clean --all`.

Accessing Data Files at Runtime
---------------------------------

Typically, existing programs manipulate a package's `__file__` attribute in order to find the location of data files. However, this manipulation isn't compatible with PEP 302-based import hooks, including importing from zip files and Python Eggs. It is strongly recommended that, if you are using data files, you should use the `Resource Management API` of `pkg_resources` to access them. The `pkg_resources` module is distributed as part of setuptools, so if you're using setuptools to distribute your package, there is no reason not to use its resource management API. See also `Accessing Package Resources` for a quick example of converting code that uses `__file__` to use `pkg_resources` instead.

.. _Resource Management API: http://peak.telecommunity.com/DevCenter/PythonEggs#resource-management

.. _Accessing Package Resources: http://peak.telecommunity.com/DevCenter/PythonEggs#accessing-package-resources

Non-Package Data Files
-----------------------

The `distutils` normally install general "data files" to a platform-specific location (e.g. `/usr/share`). This feature intended to be used for things like documentation, example configuration files, and the like. `setuptools` does not install these data files in a separate location, however. They are bundled inside the egg file or directory, alongside the Python modules and packages. The data files can also be accessed using the `Resource Management API` by specifying a `Requirement` instead of a package name:

```python
from pkg_resources import Requirement, resource_filename
filename = resource_filename(Requirement.parse("MyProject"),"sample.conf")
```

The above code will obtain the filename of the "sample.conf" file in the data root of the "MyProject" distribution.

Note, by the way, that this encapsulation of data files means that you can't actually install data files to some arbitrary location on a user's machine;
this is a feature, not a bug. You can always include a script in your
distribution that extracts and copies your the documentation or data files to
a user-specified location, at their discretion. If you put related data files
in a single directory, you can use `resource_filename()` with the directory
name to get a filesystem directory that then can be copied with the `shutil`
module. (Even if your package is installed as a zipfile, calling
`resource_filename()` on a directory will return an actual filesystem
directory, whose contents will be that entire subtree of your distribution.)

(Of course, if you're writing a new package, you can just as easily place your
data files or directories inside one of your packages, rather than using the
distutils' approach. However, if you're updating an existing application, it
may be simpler not to change the way it currently specifies these data files.)

Automatic Resource Extraction
-------------------------------

If you are using tools that expect your resources to be "real" files, or your
project includes non-extension native libraries or other files that your C
extensions expect to be able to access, you may need to list those files in
the ``eager_resources`` argument to ``setup()``. so that the files will be
extracted together, whenever a C extension in the project is imported.

This is especially important if your project includes shared libraries *other*
than distutils-built C extensions, and those shared libraries use file
extensions other than ``.dll``, ``.so``, or ``.dylib``, which are the
extensions that setuptools 0.6a8 and higher automatically detects as shared
libraries and adds to the ``native_libs.txt`` file for you. Any shared
libraries whose names do not end with one of those extensions should be listed
as ``eager_resources``, because they need to be present in the filesystem when
the C extensions that link to them are used.

The ``pkg_resources`` runtime for compressed packages will automatically
extract *all* C extensions and ``eager_resources`` at the same time, whenever
*any* C extension or eager resource is requested via the `resource_filename()`
API. (C extensions are imported using `resource_filename()` internally.)
This ensures that C extensions will see all of the "real" files that they
expect to see.

Note also that you can list directory resource names in `eager_resources` as
well, in which case the directory's contents (including subdirectories) will be
extracted whenever any C extension or eager resource is requested.

Please note that if you're not sure whether you need to use this argument, you
don't! It's really intended to support projects with lots of non-Python
dependencies and as a last resort for crufty projects that can't otherwise
handle being compressed. If your package is pure Python, Python plus data
files, or Python plus C, you really don't need this. You've got to be using either C or an external program that needs "real" files in your project before there's any possibility of "eager_resources" being relevant to your project.

Extensible Applications and Frameworks
========================================

.. _Entry Points:

Dynamic Discovery of Services and Plugins
------------------------------------------

``setuptools`` supports creating libraries that "plug in" to extensible applications and frameworks, by letting you register "entry points" in your project that can be imported by the application or framework.

For example, suppose that a blogging tool wants to support plugins that provide translation for various file types to the blog's output format. The framework might define an "entry point group" called ``blogtool.parsers``, and then allow plugins to register entry points for the file extensions they support.

This would allow people to create distributions that contain one or more parsers for different file types, and then the blogging tool would be able to find the parsers at runtime by looking up an entry point for the file extension (or mime type, or however it wants to).

Note that if the blogging tool includes parsers for certain file formats, it can register these as entry points in its own setup script, which means it doesn't have to special-case its built-in formats. They can just be treated the same as any other plugin's entry points would be.

If you're creating a project that plugs in to an existing application or framework, you'll need to know what entry points or entry point groups are defined by that application or framework. Then, you can register entry points in your setup script. Here are a few examples of ways you might register an ``.rst`` file parser entry point in the ``blogtool.parsers`` entry point group, for our hypothetical blogging tool::

```python
setup(
    # ...
    entry_points = {'blogtool.parsers': '.rst = some_module:SomeClass'}
)
```

```python
setup(
    # ...
```
entry_points = {'blogtool.parsers': ['.rst = some_module:a_func']}

setup(
    # ...
    entry_points = ""
    [blogtool.parsers]
      .rst = some.nested.module:SomeClass.some_classmethod [reST]
      """,
    extras_require = dict(reST = "Docutils>=0.3.5")
)

The `entry_points` argument to `setup()` accepts either a string with
`.ini`-style sections, or a dictionary mapping entry point group names to
either strings or lists of strings containing entry point specifiers. An
entry point specifier consists of a name and value, separated by an `=`
sign. The value consists of a dotted module name, optionally followed by a
`:` and a dotted identifier naming an object within the module. It can
also include a bracketed list of "extras" that are required for the entry
point to be used. When the invoking application or framework requests loading
of an entry point, any requirements implied by the associated extras will be
passed to `pkg_resources.require()`, so that an appropriate error message
can be displayed if the needed package(s) are missing. (Of course, the
invoking app or framework can ignore such errors if it wants to make an entry
point optional if a requirement isn't installed.)

Defining Additional Metadata
---------------------------------

Some extensible applications and frameworks may need to define their own kinds
of metadata to include in eggs, which they can then access using the
`pkg_resources` metadata APIs. Ordinarily, this is done by having plugin
developers include additional files in their `ProjectName.egg-info` directory. However, since it can be tedious to create such files by hand, you
may want to create a distutils extension that will create the necessary files
from arguments to `setup()`, in much the same way that `setuptools` does
for many of the `setup()` arguments it adds. See the section below on
`Creating distutils Extensions` for more details, especially the subsection on
`Adding new EGG-INFO Files`.

"Development Mode"
---------------------

Under normal circumstances, the `distutils` assume that you are going to
build a distribution of your project, not use it in its "raw" or "unbuilt"
form. If you were to use the `distutils` that way, you would have to rebuild
and reinstall your project every time you made a change to it during development.

Another problem that sometimes comes up with the ``distutils`` is that you may need to do development on two related projects at the same time. You may need to put both projects' packages in the same directory to run them, but need to keep them separate for revision control purposes. How can you do this?

Setuptools allows you to deploy your projects for use in a common directory or staging area, but without copying any files. Thus, you can edit each project's code in its checkout directory, and only need to run build commands when you change a project's C extensions or similarly compiled files. You can even deploy a project into another project's checkout directory, if that's your preferred way of working (as opposed to using a common independent staging area or the site-packages directory).

To do this, use the ``setup.py develop`` command. It works very similarly to ``setup.py install`` or the EasyInstall tool, except that it doesn't actually install anything. Instead, it creates a special `.egg-link` file in the deployment directory, that links to your project's source code. And, if your deployment directory is Python's `site-packages` directory, it will also update the `easy-install.pth` file to include your project's source code, thereby making it available on `sys.path` for all programs using that Python installation.

If you have enabled the `use_2to3` flag, then of course the `.egg-link` will not link directly to your source code when run under Python 3, since that source code would be made for Python 2 and not work under Python 3. Instead the `setup.py develop` will build Python 3 code under the `build` directory, and link there. This means that after doing code changes you will have to run `setup.py build` before these changes are picked up by your Python 3 installation.

In addition, the `develop` command creates wrapper scripts in the target script directory that will run your in-development scripts after ensuring that all your `install_requires` packages are available on `sys.path`.

You can deploy the same project to multiple staging areas, e.g. if you have multiple projects on the same machine that are sharing the same project you're doing development work.

When you're done with a given development task, you can remove the project source from a staging area using `setup.py develop --uninstall`, specifying the desired staging area if it's not the default.

There are several options to control the precise behavior of the `develop` command; see the section on the `develop` command below for more details.
Note that you can also apply setuptools commands to non-setuptools projects, using commands like this:

```
python -c "import setuptools; execfile('setup.py')" develop
```

That is, you can simply list the normal setup commands and options following the quoted part.

Distributing a ``setuptools``-based project
===========================================

Using ``setuptools``... Without bundling it!
----------------------------------------------

Your users might not have ``setuptools`` installed on their machines, or even if they do, it might not be the right version. Fixing this is easy; just download `ez_setup.py` and put it in the same directory as your ``setup.py`` script. (Be sure to add it to your revision control system, too.) Then add these two lines to the very top of your setup script, before the script imports anything from setuptools:

```
.. code-block:: python

    import ez_setup
    ez_setup.use_setuptools()
```

That's it. The `ez_setup` module will automatically download a matching version of ``setuptools`` from PyPI, if it isn't present on the target system. Whenever you install an updated version of setuptools, you should also update your projects' `ez_setup.py` files, so that a matching version gets installed on the target machine(s).

By the way, setuptools supports the new PyPI "upload" command, so you can use ``setup.py sdist upload`` or ``setup.py bdist_egg upload`` to upload your source or egg distributions respectively. Your project's current version must be registered with PyPI first, of course; you can use ``setup.py register`` to do that. Or you can do it all in one step, e.g. ``setup.py register sdist bdist_egg upload`` will register the package, build source and egg distributions, and then upload them both to PyPI, where they'll be easily found by other projects that depend on them.

(By the way, if you need to distribute a specific version of ``setuptools``, you can specify the exact version and base download URL as parameters to the ``use_setuptools()`` function. See the function's docstring for details.)

What Your Users Should Know
In general, a setuptools-based project looks just like any distutils-based project -- as long as your users have an internet connection and are installing to ``site-packages``, that is. But for some users, these conditions don't apply, and they may become frustrated if this is their first encounter with a setuptools-based project. To keep these users happy, you should review the following topics in your project's installation instructions, if they are relevant to your project and your target audience isn't already familiar with setuptools and ``easy_install``.

Network Access

If your project is using ``ez_setup``, you should inform users of the need to either have network access, or to preinstall the correct version of setuptools using the `EasyInstall installation instructions`_. Those instructions also have tips for dealing with firewalls as well as how to manually download and install setuptools.

Custom Installation Locations

You should inform your users that if they are installing your project to somewhere other than the main ``site-packages`` directory, they should first install setuptools using the instructions for `Custom Installation Locations`_, before installing your project.

Your Project's Dependencies

If your project depends on other projects that may need to be downloaded from PyPI or elsewhere, you should list them in your installation instructions, or tell users how to find out what they are. While most users will not need this information, any users who don't have unrestricted internet access may have to find, download, and install the other projects manually. (Note, however, that they must still install those projects using ``easy_install``, or your project will not know they are installed, and your setup script will try to download them again.)

If you want to be especially friendly to users with limited network access, you may wish to build eggs for your project and its dependencies, making them all available for download from your site, or at least create a page with links to all of the needed eggs. In this way, users with limited network access can manually download all the eggs to a single directory, then use the ``-f`` option of ``easy_install`` to specify the directory to find eggs in. Users who have full network access can just use ``-f`` with the URL of your download page, and ``easy_install`` will find all the needed eggs using your links directly. This is also useful when your target audience isn't able to compile packages (e.g. most Windows users) and your package or some of its dependencies include C code.

Revision Control System Users and Co-Developers

Users and co-developers who are tracking your in-development code using
a revision control system should probably read this manual's sections regarding such development. Alternately, you may wish to create a quick-reference guide containing the tips from this manual that apply to your particular situation. For example, if you recommend that people use `setup.py develop` when tracking your in-development code, you should let them know that this needs to be run after every update or commit.

Similarly, if you remove modules or data files from your project, you should remind them to run `setup.py clean --all` and delete any obsolete `.pyc` or `.pyo` (.This tip applies to the distutils in general, not just setuptools, but not everybody knows about them; be kind to your users by spelling out your project's best practices rather than leaving them guessing.)

Creating System Packages
Some users want to manage all Python packages using a single package manager, and sometimes that package manager isn’t `easy_install`! Setuptools currently supports `bdist_rpm`, `bdist_wininst`, and `bdist_dumb` formats for system packaging. If a user has a locally-installed `bdist` packaging tool that internally uses the distutils `install` command, it should be able to work with `setuptools`. Some examples of "bdist" formats that this should work with include the `bdist_nsi` and `bdist_msi` formats for Windows.

However, packaging tools that build binary distributions by running `setup.py install` on the command line or as a subprocess will require modification to work with setuptools. They should use the `--single-version-externally-managed` option to the `install` command, combined with the standard `--root` or `--record` options. See the `install command` documentation below for more details. The `bdist_deb` command is an example of a command that currently requires this kind of patching to work with setuptools.

If you or your users have a problem building a usable system package for your project, please report the problem via the mailing list so that either the "bdist" tool in question or setuptools can be modified to resolve the issue.

Setting the `zip_safe` flag
-------------------------------

For maximum performance, Python packages are best installed as zip files. Not all packages, however, are capable of running in compressed form, because they may expect to be able to access either source code or data files as normal operating system files. So, `setuptools` can install your project as a zipfile or a directory, and its default choice is determined by the project's `zip_safe` flag.
You can pass a True or False value for the `zip_safe` argument to the `setup()` function, or you can omit it. If you omit it, the `bdist_egg` command will analyze your project's contents to see if it can detect any conditions that would prevent it from working in a zipfile. It will output notices to the console about any such conditions that it finds.

Currently, this analysis is extremely conservative: it will consider the project unsafe if it contains any C extensions or datafiles whatsoever. This does *not* mean that the project can't or won't work as a zipfile! It just means that the `bdist_egg` authors aren't yet comfortable asserting that the project *will* work. If the project contains no C or data files, and does no `__file__` or `__path__` introspection or source code manipulation, then there is an extremely solid chance the project will work when installed as a zipfile. (And if the project uses `pkg_resources` for all its data file access, then C extensions and other data files shouldn't be a problem at all. See the `Accessing Data Files at Runtime` section above for more information.)

However, if `bdist_egg` can't be *sure* that your package will work, but you've checked over all the warnings it issued, and you are either satisfied it *will* work (or if you want to try it for yourself), then you should set `zip_safe` to `True` in your `setup()` call. If it turns out that it doesn't work, you can always change it to `False`, which will force `setuptools` to install your project as a directory rather than as a zipfile.

Of course, the end-user can still override either decision, if they are using EasyInstall to install your package. And, if you want to override for testing purposes, you can just run `setup.py easy_install --zip-ok .` or `setup.py easy_install --always-unzip .` in your project directory, to install the package as a zipfile or directory, respectively.

In the future, as we gain more experience with different packages and become more satisfied with the robustness of the `pkg_resources` runtime, the "zip safety" analysis may become less conservative. However, we strongly recommend that you determine for yourself whether your project functions correctly when installed as a zipfile, correct any problems if you can, and then make an explicit declaration of `True` or `False` for the `zip_safe` flag, so that it will not be necessary for `bdist_egg` or `EasyInstall` to try to guess whether your project can work as a zipfile.

Namespace Packages
--------------------

Sometimes, a large package is more useful if distributed as a collection of smaller eggs. However, Python does not normally allow the contents of a package to be retrieved from more than one location. "Namespace packages" are a solution for this problem. When you declare a package to be a namespace
package, it means that the package has no meaningful contents in its
`__init__.py`, and that it is merely a container for modules and subpackages.

The ``pkg_resources`` runtime will then automatically ensure that the contents
of namespace packages that are spread over multiple eggs or directories are
combined into a single "virtual" package.

The ``namespace_packages`` argument to ``setup()`` lets you declare your
project's namespace packages, so that they will be included in your project's
metadata. The argument should list the namespace packages that the egg
participates in. For example, the ZopeInterface project might do this::

    setup(
        # ...
        namespace_packages = ['zope']
    )

because it contains a ``zope.interface`` package that lives in the ``zope``
namespace package. Similarly, a project for a standalone ``zope.publisher``
would also declare the ``zope`` namespace package. When these projects are
installed and used, Python will see them both as part of a "virtual" ``zope``
package, even though they will be installed in different locations.

Namespace packages don't have to be top-level packages. For example, Zope 3's
``zope.app`` package is a namespace package, and in the future PEAK's
``peak.util`` package will be too.

Note, by the way, that your project's source tree must include the namespace
directories' `__init__.py` files (and the `__init__.py` of any parent
packages), in a normal Python package layout. These `__init__.py` files
*must* contain the line::

    __import__('pkg_resources').declare_namespace(__name__)

This code ensures that the namespace package machinery is operating and that
the current package is registered as a namespace package.

You must NOT include any other code and data in a namespace package's
`__init__.py`. Even though it may appear to work during development, or when
projects are installed as `.egg` files, it will not work when the projects
are installed using "system" packaging tools -- in such cases the
`__init__.py` files will not be installed, let alone executed.

You must include the `declare_namespace()` line in the `__init__.py` of
*every* project that has contents for the namespace package in question, in
order to ensure that the namespace will be declared regardless of which
project's copy of `__init__.py` is loaded first. If the first loaded
`__init__.py` doesn't declare it, it will never *be* declared, because no
other copies will ever be loaded!

TRANSITIONAL NOTE
~~~~~~~~~~~~~~~~~~~

Setuptools automatically calls `declare_namespace()` for you at runtime, but future versions may *not*. This is because the automatic declaration feature has some negative side effects, such as needing to import all namespace packages during the initialization of the `pkg_resources` runtime, and also the need for `pkg_resources` to be explicitly imported before any namespace packages work at all. In some future releases, you'll be responsible for including your own declaration lines, and the automatic declaration feature will be dropped to get rid of the negative side effects.

During the remainder of the current development cycle, therefore, setuptools will warn you about missing `declare_namespace()` calls in your `__init__.py` files, and you should correct these as soon as possible before the compatibility support is removed. Namespace packages without declaration lines will not work correctly once a user has upgraded to a later version, so it's important that you make this change now in order to avoid having your code break in the field. Our apologies for the inconvenience, and thank you for your patience.

Tagging and "Daily Build" or "Snapshot" Releases
------------------------------------------------

When a set of related projects are under development, it may be important to track finer-grained version increments than you would normally use for e.g. "stable" releases. While stable releases might be measured in dotted numbers with alpha/beta/etc. status codes, development versions of a project often need to be tracked by revision or build number or even build date. This is especially true when projects in development need to refer to one another, and therefore may literally need an up-to-the-minute version of something!

To support these scenarios, `setuptools` allows you to "tag" your source and egg distributions by adding one or more of the following to the project's "official" version identifier:

* A manually-specified pre-release tag, such as "build" or "dev", or a manually-specified post-release tag, such as a build or revision number (`--tag-build=STRING, -bSTRING``)

* A "last-modified revision number" string generated automatically from Subversion's metadata (assuming your project is being built from a Subversion "working copy") (`--tag-svn-revision, -r``)
An 8-character representation of the build date (`--tag-date, -d`) as a postrelease tag.

You can add these tags by adding `egg_info` and the desired options to the command line ahead of the `sdist` or `bdist` commands that you want to generate a daily build or snapshot for. See the section below on the `egg_info` command for more details.

(Also, before you release your project, be sure to see the section above on `Specifying Your Project's Version` for more information about how pre- and post-release tags affect how setuptools and EasyInstall interpret version numbers. This is important in order to make sure that dependency processing tools will know which versions of your project are newer than others.)

Finally, if you are creating builds frequently, and either building them in a downloadable location or are copying them to a distribution server, you should probably also check out the `rotate` command, which lets you automatically delete all but the N most-recently-modified distributions matching a glob pattern. So, you can use a command line like:

```
setup.py egg_info -rbDEV bdist_egg rotate -m.egg -k3
```

to build an egg whose version info includes 'DEV-rNNNN' (where NNNN is the most recent Subversion revision that affected the source tree), and then delete any egg files from the distribution directory except for the three that were built most recently.

If you have to manage automated builds for multiple packages, each with different tagging and rotation policies, you may also want to check out the `alias` command, which would let each package define an alias like `daily` that would perform the necessary tag, build, and rotate commands. Then, a simpler script or cron job could just run `setup.py daily` in each project directory. (And, you could also define sitewide or per-user default versions of the `daily` alias, so that projects that didn't define their own would use the appropriate defaults.)

Generating Source Distributions
--------------------------------

`setuptools` enhances the distutils' default algorithm for source file selection with pluggable endpoints for looking up files to include. If you are using a revision control system, and your source distributions only need to include files that you're tracking in revision control, use a corresponding plugin instead of writing a `MANIFEST.in` file. See the section below on `Adding Support for Revision Control Systems` for information on plugins.
If you need to include automatically generated files, or files that are kept in an unsupported revision control system, you'll need to create a ``MANIFEST.in`` file to specify any files that the default file location algorithm doesn't catch. See the distutils documentation for more information on the format of the ``MANIFEST.in`` file.

But, be sure to ignore any part of the distutils documentation that deals with "MANIFEST" or how it's generated from "MANIFEST.in"; setuptools shields you from these issues and doesn't work the same way in any case. Unlike the distutils, setuptools regenerates the source distribution manifest file every time you build a source distribution, and it builds it inside the project's `.egg-info` directory, out of the way of your main project directory. You therefore need not worry about whether it is up-to-date or not.

Indeed, because setuptools' approach to determining the contents of a source distribution is so much simpler, its `sdist` command omits nearly all of the options that the distutils' more complex `sdist` process requires. For all practical purposes, you'll probably use only the `--formats` option, if you use any option at all.

Making your package available for EasyInstall
---------------------------------------------

If you use the `register` command (`setup.py register`) to register your package with PyPI, that's most of the battle right there. (See the `docs for the register command`_ for more details.)

.. _docs for the register command: http://docs.python.org/dist/package-index.html

If you also use the `upload` command to upload actual distributions of your package, that's even better, because EasyInstall will be able to find and download them directly from your project's PyPI page.

However, there may be reasons why you don't want to upload distributions to PyPI, and just want your existing distributions (or perhaps a Subversion checkout) to be used instead.

So here's what you need to do before running the `register` command. There are three `setup()` arguments that affect EasyInstall:

``url`` and ``download_url``
These become links on your project's PyPI page. EasyInstall will examine them to see if they link to a package ("primary links"), or whether they are HTML pages. If they're HTML pages, EasyInstall scans all HREF's on the page for primary links.

``long_description``
EasyInstall will check any URLs contained in this argument to see if they are primary links.

A URL is considered a "primary link" if it is a link to a .tar.gz, .tgz, .zip, .egg, .egg.zip, .tar.bz2, or .exe file, or if it has an ``#egg=project`` or ``#egg=project-version`` fragment identifier attached to it. EasyInstall attempts to determine a project name and optional version number from the text of a primary link *without* downloading it. When it has found all the primary links, EasyInstall will select the best match based on requested version, platform compatibility, and other criteria.

So, if your `url` or `download_url` point either directly to a downloadable source distribution, or to HTML page(s) that have direct links to such, then EasyInstall will be able to locate downloads automatically. If you want to make Subversion checkouts available, then you should create links with either ``#egg=project`` or ``#egg=project-version`` added to the URL. You should replace `project` and `version` with the values they would have in an egg filename. (Be sure to actually generate an egg and then use the initial part of the filename, rather than trying to guess what the escaped form of the project name and version number will be.)

Note that Subversion checkout links are of lower precedence than other kinds of distributions, so EasyInstall will not select a Subversion checkout for downloading unless it has a version included in the ``#egg=``` suffix, and it's a higher version than EasyInstall has seen in any other links for your project.

As a result, it's a common practice to use mark checkout URLs with a version of "dev" (i.e., ``#egg=projectname-dev``), so that users can do something like this::

```
  easy_install --editable projectname==dev
```

in order to check out the in-development version of `projectname`.

Managing "Continuous Releases" Using Subversion
-----------------------------------------------

If you expect your users to track in-development versions of your project via Subversion, there are a few additional steps you should take to ensure that things work smoothly with EasyInstall. First, you should add the following to your project's `setup.cfg` file:

```
[egg_info]
tag_build = .dev
```

This will tell ``setuptools`` to generate package version numbers like
``1.0a1.dev-r1263``, which will be considered to be an *older* release than
``1.0a1``. Thus, when you actually release ``1.0a1``, the entire egg
infrastructure (including ``setuptools``, ``pkg_resources`` and EasyInstall)
will know that ``1.0a1`` supersedes any interim snapshots from Subversion, and
handle upgrades accordingly.

(Note: the project version number you specify in ``setup.py`` should always be
the *next* version of your software, not the last released version.  
Alternately, you can leave out the ``tag_build=.dev``), and always use the
*last* release as a version number, so that your post-1.0 builds are labelled
``1.0-r1263``), indicating a post-1.0 patchlevel. Most projects so far,
however, seem to prefer to think of their project as being a future version
still under development, rather than a past version being patched. It is of
course possible for a single project to have both situations, using
post-release numbering on release branches, and pre-release numbering on the
trunk. But you don't have to make things this complex if you don't want to.)

Commonly, projects releasing code from Subversion will include a PyPI link to
their checkout URL (as described in the previous section) with an
``#egg=projectname-dev`` suffix. This allows users to request EasyInstall
to download ``projectname==dev`` in order to get the latest in-development
code. Note that if your project depends on such in-progress code, you may wish
to specify your ``install_requires`` (or other requirements) to include
``==dev``, e.g.:

.. code-block:: python

    install_requires = ["OtherProject>=0.2a1.dev-r143,==dev"]

The above example says, "I really want at least this particular development
revision number, but feel free to follow and use an ``#egg=OtherProject-dev``
link if you find one". This avoids the need to have actual source or binary
distribution snapshots of in-development code available, just to be able to
depend on the latest and greatest a project has to offer.

A final note for Subversion development: if you are using SVN revision tags
as described in this section, it's a good idea to run ``setup.py develop``
after each Subversion checkin or update, because your project's version number
will be changing, and your script wrappers need to be updated accordingly.

Also, if the project's requirements have changed, the ``develop`` command will
take care of fetching the updated dependencies, building changed extensions,
etc. Be sure to also remind any of your users who check out your project
from Subversion that they need to run ``setup.py develop`` after every update
in order to keep their checkout completely in sync.
Making "Official" (Non-Snapshot) Releases
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

When you make an official release, creating source or binary distributions, you will need to override the tag settings from `setup.cfg`, so that you don't end up registering versions like `foobar-0.7a1.dev-r34832`. This is easy to do if you are developing on the trunk and using tags or branches for your releases - just make the change to `setup.cfg` after branching or tagging the release, so the trunk will still produce development snapshots.

Alternately, if you are not branching for releases, you can override the default version options on the command line, using something like::

```
python setup.py egg_info -RDb "" sdist bdist_egg register upload
```

The first part of this command (``egg_info -RDb ""``) will override the configured tag information, before creating source and binary eggs, registering the project with PyPI, and uploading the files. Thus, these commands will use the plain version from your `setup.py`, without adding the Subversion revision number or build designation string.

Of course, if you will be doing this a lot, you may wish to create a personal alias for this operation, e.g.::

```
python setup.py alias -u release egg_info -RDb ""
```

You can then use it like this::

```
python setup.py release sdist bdist_egg register upload
```

Or of course you can create more elaborate aliases that do all of the above. See the sections below on the `egg_info` and `alias` commands for more ideas.

Distributing Extensions compiled with Pyrex
-------------------------------------------

``setuptools`` includes transparent support for building Pyrex extensions, as long as you define your extensions using ``setuptools.Extension``, *not* ``distutils.Extension``. You must also not import anything from Pyrex in your setup script.

If you follow these rules, you can safely list ``.pyx`` files as the source of your `"Extension` objects in the setup script. ``setuptools`` will detect at build time whether Pyrex is installed or not. If it is, then ``setuptools``
will use it. If not, then ``setuptools`` will silently change the
``Extension`` objects to refer to the ``.c`` counterparts of the ``.pyx``
files, so that the normal distutils C compilation process will occur.

Of course, for this to work, your source distributions must include the C
code generated by Pyrex, as well as your original ``.pyx`` files. This means
that you will probably want to include current ``.c`` files in your revision
control system, rebuilding them whenever you check changes in for the ``.pyx``
source files. This will ensure that people tracking your project in a revision
control system will be able to build it even if they don't have Pyrex
installed, and that your source releases will be similarly usable with or
without Pyrex.

-----------------
Command Reference
-----------------
.. _alias:
``alias`` - Define shortcuts for commonly used commands
=================================================================

Sometimes, you need to use the same commands over and over, but you can't
necessarily set them as defaults. For example, if you produce both development
snapshot releases and "stable" releases of a project, you may want to put
the distributions in different places, or use different ``egg_info`` tagging
options, etc. In these cases, it doesn't make sense to set the options in
a distutils configuration file, because the values of the options changed based
on what you're trying to do.

Setuptools therefore allows you to define "aliases" - shortcut names for
an arbitrary string of commands and options, using ``setup.py alias aliasname``
expansion`, where aliasname is the name of the new alias, and the remainder of
the command line supplies its expansion. For example, this command defines
a sitewide alias called "daily", that sets various ``egg_info`` tagging
options::

    setup.py alias --global-config daily egg_info --tag-svn-revision --tag-build=development

Once the alias is defined, it can then be used with other setup commands,
e.g.::

    setup.py daily bdist_egg  # generate a daily-build .egg file
    setup.py daily sdist     # generate a daily-build source distro
    setup.py daily sdist bdist_egg # generate both
The above commands are interpreted as if the word "daily" were replaced with 
"egg_info --tag-svn-revision --tag-build=development".

Note that setuptools will expand each alias *at most once* in a given command line. This serves two purposes. First, if you accidentally create an alias loop, it will have no effect; you'll instead get an error message about an unknown command. Second, it allows you to define an alias for a command, that uses that command. For example, this (project-local) alias::

    setup.py alias bdist_egg bdist_egg rotate -k1 -m.egg

redefines the "bdist_egg" command so that it always runs the "rotate" command afterwards to delete all but the newest egg file. It doesn't loop indefinitely on "bdist_egg" because the alias is only expanded once when used.

You can remove a defined alias with the "--remove" (or "-r") option, e.g.::

    setup.py alias --global-config --remove daily

would delete the "daily" alias we defined above.

Aliases can be defined on a project-specific, per-user, or sitewide basis. The default is to define or remove a project-specific alias, but you can use any of the `configuration file options`_ (listed under the `saveopts`_ command, below) to determine which distutils configuration file an aliases will be added to (or removed from).

Note that if you omit the "expansion" argument to the "alias" command, you'll get output showing that alias' current definition (and what configuration file it's defined in). If you omit the alias name as well, you'll get a listing of all current aliases along with their configuration file locations.

``bdist_egg`` - Create a Python Egg for the project

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

This command generates a Python Egg (``.egg`` file) for the project. Python Eggs are the preferred binary distribution format for EasyInstall, because they are cross-platform (for "pure" packages), directly importable, and contain project metadata including scripts and information about the project's dependencies. They can be simply downloaded and added to ``sys.path`` directly, or they can be placed in a directory on ``sys.path`` and then automatically discovered by the egg runtime system.

This command runs the `egg_info`_ command (if it hasn't already run) to update the project's metadata (``.egg-info``) directory. If you have added any extra
metadata files to the `''..egg-info`` directory, those files will be included in
the new egg file's metadata directory, for use by the egg runtime system or by
any applications or frameworks that use that metadata.

You won't usually need to specify any special options for this command; just
use `''bdist_egg''` and you're done. But there are a few options that may
be occasionally useful:

``--dist-dir=DIR, -d DIR``
Set the directory where the `''..egg`` file will be placed. If you don't
supply this, then the `''--dist-dir`` setting of the `''bdist`` command
will be used, which is usually a directory named `''dist`` in the project
directory.

``--plat-name=PLATFORM, -p PLATFORM``
Set the platform name string that will be embedded in the egg's filename
(assuming the egg contains C extensions). This can be used to override
the distutils default platform name with something more meaningful. Keep
in mind, however, that the egg runtime system expects to see eggs with
distutils platform names, so it may ignore or reject eggs with non-standard
platform names. Similarly, the EasyInstall program may ignore them when
searching web pages for download links. However, if you are
cross-compiling or doing some other unusual things, you might find a use
for this option.

``--exclude-source-files``
Don't include any modules' `''..py`` files in the egg, just compiled Python,
C, and data files. (Note that this doesn't affect any `''..py`` files in the
EGG-INFO directory or its subdirectories, since for example there may be
scripts with a `''..py`` extension which must still be retained.) We don't
recommend that you use this option except for packages that are being
bundled for proprietary end-user applications, or for "embedded" scenarios
where space is at an absolute premium. On the other hand, if your package
is going to be installed and used in compressed form, you might as well
exclude the source because Python's `''traceback`` module doesn't currently
understand how to display zipped source code anyway, or how to deal with
files that are in a different place from where their code was compiled.

There are also some options you will probably never need, but which are there
because they were copied from similar `''bdist`` commands used as an example for
creating this one. They may be useful for testing and debugging, however,
which is why we kept them:

``--keep-temp, -k``
Keep the contents of the `''--bdist-dir`` tree around after creating the
`''..egg`` file.

``--bdist-dir=DIR, -b DIR``
Set the temporary directory for creating the distribution. The entire contents of this directory are zipped to create the `*.egg` file, after running various installation commands to copy the package's modules, data, and extensions here.

``--skip-build``
Skip doing any "build" commands; just go straight to the install-and-compress phases.

.. _develop:
``develop`` - Deploy the project source in "Development Mode"

This command allows you to deploy your project's source for use in one or more "staging areas" where it will be available for importing. This deployment is done in such a way that changes to the project source are immediately available in the staging area(s), without needing to run a build or install step after each change.

The ``develop`` command works by creating an `*.egg-link` file (named for the project) in the given staging area. If the staging area is Python's `site-packages` directory, it also updates an `easy-install.pth` file so that the project is on `sys.path` by default for all programs run using that Python installation.

The ``develop`` command also installs wrapper scripts in the staging area (or a separate directory, as specified) that will ensure the project's dependencies are available on `sys.path` before running the project's source scripts. And, it ensures that any missing project dependencies are available in the staging area, by downloading and installing them if necessary.

Last, but not least, the ``develop`` command invokes the `build_ext -i` command to ensure any C extensions in the project have been built and are up-to-date, and the `egg_info` command to ensure the project's metadata is updated (so that the runtime and wrappers know what the project's dependencies are). If you make any changes to the project's setup script or C extensions, you should rerun the `develop` command against all relevant staging areas to keep the project's scripts, metadata and extensions up-to-date. Most other kinds of changes to your project should not require any build operations or rerunning `develop`, but keep in mind that even minor changes to the setup script (e.g. changing an entry point definition) require you to re-run the `develop` or `test` commands to keep the distribution updated.

Here are some of the options that the `develop` command accepts. Note that they affect the project's dependencies as well as the project itself, so if you have dependencies that need to be installed and you use `--exclude-scripts`
(for example), the dependencies' scripts will not be installed either! For this reason, you may want to use EasyInstall to install the project's dependencies before using the `develop` command, if you need finer control over the installation options for dependencies.

``--uninstall, -u``

Un-deploy the current project. You may use the `--install-dir` or `-d` option to designate the staging area. The created `.egg-link` file will be removed, if present and it is still pointing to the project directory. The project directory will be removed from `easy-install.pth` if the staging area is Python's `site-packages` directory.

Note that this option currently does *not* uninstall script wrappers! You must uninstall them yourself, or overwrite them by using EasyInstall to activate a different version of the package. You can also avoid installing script wrappers in the first place, if you use the `--exclude-scripts` (aka `--x`) option when you run `develop` to deploy the project.

``--multi-version, -m``

"Multi-version" mode. Specifying this option prevents `develop` from adding an `easy-install.pth` entry for the project(s) being deployed, and if an entry for any version of a project already exists, the entry will be removed upon successful deployment. In multi-version mode, no specific version of the package is available for importing, unless you use

``pkg_resources.require()`` to put it on `sys.path`, or you are running a wrapper script generated by `setuptools` or EasyInstall. (In which case the wrapper script calls `require()` for you.)

Note that if you install to a directory other than `site-packages`, this option is automatically in effect, because `.pth` files can only be used in `site-packages` (at least in Python 2.3 and 2.4). So, if you use the `--install-dir` or `-d` option (or they are set via configuration file(s)) your project and its dependencies will be deployed in multi-version mode.

``--install-dir=DIR, -d DIR``

Set the installation directory (staging area). If this option is not directly specified on the command line or in a distutils configuration file, the distutils default installation location is used. Normally, this will be the `site-packages` directory, but if you are using distutils configuration files, setting things like `prefix` or `install_lib`, then those settings are taken into account when computing the default staging area.

``--script-dir=DIR, -s DIR``

Set the script installation directory. If you don't supply this option (via the command line or a configuration file), but you *have* supplied an `--install-dir` (via command line or config file), then this option
defaults to the same directory, so that the scripts will be able to find their associated package installation. Otherwise, this setting defaults to the location where the distutils would normally install scripts, taking any distutils configuration file settings into account.

``--exclude-scripts, -x``
Don't deploy script wrappers. This is useful if you don't want to disturb existing versions of the scripts in the staging area.

``--always-copy, -a``
Copy all needed distributions to the staging area, even if they are already present in another directory on ``sys.path``. By default, if a requirement can be met using a distribution that is already available in a directory on ``sys.path``, it will not be copied to the staging area.

``--egg-path=DIR``
Force the generated `.egg-link` file to use a specified relative path to the source directory. This can be useful in circumstances where your installation directory is being shared by code running under multiple platforms (e.g. Mac and Windows) which have different absolute locations for the code under development, but the same relative locations with respect to the installation directory. If you use this option when installing, you must supply the same relative path when uninstalling.

In addition to the above options, the `develop` command also accepts all of the same options accepted by `easy_install`. If you've configured any `easy_install` settings in your `setup.cfg` (or other distutils config files), the `develop` command will use them as defaults, unless you override them in a `[develop]` section or on the command line.

``easy_install`` - Find and install packages
============================================
This command runs the `EasyInstall tool <easy_install.html>` for you. It is exactly equivalent to running the `easy_install` command. All command line arguments following this command are consumed and not processed further by the distutils, so this must be the last command listed on the command line. Please see the EasyInstall documentation for the options reference and usage examples.

Normally, there is no reason to use this command via the command line, as you can just use `easy_install` directly. It's only listed here so that you know it's a distutils command, which means that you can:

* create command aliases that use it,
* create distutils extensions that invoke it as a subcommand, and
* configure options for it in your `setup.cfg` or other distutils config files.
.. _egg_info:
``egg_info`` - Create egg metadata and set build tags
=====================================================
This command performs two operations: it updates a project's ``.egg-info``
metadata directory (used by the ``bdist_egg``, ``develop``, and ``test``
commands), and it allows you to temporarily change a project's version string,
to support "daily builds" or "snapshot" releases. It is run automatically by
the ``sdist``, ``bdist_egg``, ``develop``, ``register``, and ``test`` commands
in order to update the project's metadata, but you can also specify it
explicitly in order to temporarily change the project's version string while
executing other commands. (It also generates the``.egg-info/SOURCES.txt``
manifest file, which is used when you are building source distributions.)
In addition to writing the core egg metadata defined by ``setuptools`` and
required by ``pkg_resources``, this command can be extended to write other
metadata files as well, by defining entry points in the ``egg_info.writers``
group. See the section on `Adding new EGG-INFO Files`_ below for more details.
Note that using additional metadata writers may require you to include a
``setup_requires`` argument to ``setup()`` in order to ensure that the desired
writers are available on ``sys.path``.

Release Tagging Options
----------------------The following options can be used to modify the project's version string for
all remaining commands on the setup command line. The options are processed
in the order shown, so if you use more than one, the requested tags will be
added in the following order:
``--tag-build=NAME, -b NAME``
Append NAME to the project's version string. Due to the way setuptools
processes "pre-release" version suffixes beginning with the letters "a"
through "e" (like "alpha", "beta", and "candidate"), you will usually want
to use a tag like ".build" or ".dev", as this will cause the version number
to be considered *lower* than the project's default version. (If you
want to make the version number *higher* than the default version, you can
always leave off --tag-build and then use one or both of the following
options.)
If you have a default build tag set in your ``setup.cfg``, you can suppress
it on the command line using ``-b ""`` or ``--tag-build=""`` as an argument
to the ``egg_info`` command.

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``--tag-svn-revision, -r``

If the current directory is a Subversion checkout (i.e. has a `.svn` subdirectory, this appends a string of the form `-rNNNN` to the project's version string, where NNNN is the revision number of the most recent modification to the current directory, as obtained from the `svn info` command.

If the current directory is not a Subversion checkout, the command will look for a `PKG-INFO` file instead, and try to find the revision number from that, by looking for a `-rNNNN` string at the end of the version number. (This is so that building a package from a source distribution of a Subversion snapshot will produce a binary with the correct version number.)

If there is no `PKG-INFO` file, or the version number contained therein does not end with `-r` and a number, then `-r0` is used.

``--no-svn-revision, -R``

Don't include the Subversion revision in the version number. This option is included so you can override a default setting put in `setup.cfg`.

``--tag-date, -d``

Add a date stamp of the form `-YYYYMMDD` (e.g. `-20050528`) to the project's version number.

``--no-date, -D``

Don't include a date stamp in the version number. This option is included so you can override a default setting in `setup.cfg`.

(Note: Because these options modify the version number used for source and binary distributions of your project, you should first make sure that you know how the resulting version numbers will be interpreted by automated tools like EasyInstall. See the section above on `Specifying Your Project's Version` for an explanation of pre- and post-release tags, as well as tips on how to choose and verify a versioning scheme for your project.)

For advanced uses, there is one other option that can be set, to change the location of the project's `.egg-info` directory. Commands that need to find the project's source directory or metadata should get it from this setting:

Other `egg_info` Options
------------------------

``--egg-base=SOURCEDIR, -e SOURCEDIR``

Specify the directory that should contain the .egg-info directory. This should normally be the root of your project's source tree (which is not
necessarily the same as your project directory; some projects use a `src` or `lib` subdirectory as the source root). You should not normally need to specify this directory, as it is normally determined from the `package_dir` argument to the `setup()` function, if any. If there is no `package_dir` set, this option defaults to the current directory.

``egg_info`` Examples
------------------------

Creating a dated "nightly build" snapshot egg::

    python setup.py egg_info --tag-date --tag-build=DEV bdist_egg

Creating and uploading a release with no version tags, even if some default tags are specified in `setup.cfg`::

    python setup.py egg_info -RDb "" sdist bdist_egg register upload

(Notice that `egg_info` must always appear on the command line *before* any commands that you want the version changes to apply to.)

.. _install command:

``install`` - Run `easy_install` or old-style installation

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

The setuptools `install` command is basically a shortcut to run the
`easy_install` command on the current project. However, for convenience
in creating "system packages" of setuptools-based projects, you can also
use this option:

``--single-version-externally-managed``

This boolean option tells the `install` command to perform an "old style"
installation, with the addition of an `.egg-info` directory so that the
installed project will still have its metadata available and operate
normally. If you use this option, you *must* also specify the `--root`
or `--record` options (or both), because otherwise you will have no way
to identify and remove the installed files.

This option is automatically in effect when `install` is invoked by another
distutils command, so that commands like `bdist_wininst` and `bdist_rpm`
will create system packages of eggs. It is also automatically in effect if
you specify the `--root` option.

``install_egg_info`` - Install an `.egg-info` directory in `site-packages`
Setuptools runs this command as part of `install` operations that use the
`--single-version-externally-managed` options. You should not invoke it
directly; it is documented here for completeness and so that distutils
extensions such as system package builders can make use of it. This command
has only one option:

```
--install-dir=DIR, -d DIR
```

The parent directory where the `.egg-info` directory will be placed.
Defaults to the same as the `--install-dir` option specified for the
`install_lib` command, which is usually the system `site-packages`
directory.

This command assumes that the `egg_info` command has been given valid options
via the command line or `setup.cfg`, as it will invoke the `egg_info`
command and use its options to locate the project's source `.egg-info`
directory.

.. _rotate:

```
rotate - Delete outdated distribution files
```

As you develop new versions of your project, your distribution (`dist`) directory will gradually fill up with older source and/or binary distribution files. The `rotate` command lets you automatically clean these up, keeping only the N most-recently modified files matching a given pattern.

```
--match=PATTERNLIST, -m PATTERNLIST
```

Comma-separated list of glob patterns to match. This option is *required*.
The project name and `-*` is prepended to the supplied patterns, in order
to match only distributions belonging to the current project (in case you
have a shared distribution directory for multiple projects). Typically,
you will use a glob pattern like `*.zip` or `*.egg` to match files of
the specified type. Note that each supplied pattern is treated as a
distinct group of files for purposes of selecting files to delete.

```
--keep=COUNT, -k COUNT
```

Number of matching distributions to keep. For each group of files
identified by a pattern specified with the `--match` option, delete all
but the COUNT most-recently-modified files in that group. This option is
*required*.

```
--dist-dir=DIR, -d DIR
```

Directory where the distributions are. This defaults to the value of the
`bdist` command's `--dist-dir` option, which will usually be the
project's ''dist'' subdirectory.

**Example 1**: Delete all .tar.gz files from the distribution directory, except for the 3 most recently modified ones::

    setup.py rotate --match=.tar.gz --keep=3

**Example 2**: Delete all Python 2.3 or Python 2.4 eggs from the distribution directory, except the most recently modified one for each Python version::

    setup.py rotate --match=-py2.3*.egg,-py2.4*.egg --keep=1

.. _saveopts:

``saveopts`` - Save used options to a configuration file

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

Finding and editing ``distutils`` configuration files can be a pain, especially since you also have to translate the configuration options from command-line form to the proper configuration file format. You can avoid these hassles by using the ``saveopts`` command. Just add it to the command line to save the options you used. For example, this command builds the project using the ``mingw32`` C compiler, then saves the --compiler setting as the default for future builds (even those run implicitly by the ``install`` command)::

    setup.py build --compiler=mingw32 saveopts

The ``saveopts`` command saves all options for every command specified on the command line to the project's local ``setup.cfg`` file, unless you use one of the `configuration file options`_ to change where the options are saved. For example, this command does the same as above, but saves the compiler setting to the site-wide (global) distutils configuration::

    setup.py build --compiler=mingw32 saveopts -g

Note that it doesn't matter where you place the ``saveopts`` command on the command line; it will still save all the options specified for all commands. For example, this is another valid way to spell the last example::

    setup.py saveopts -g build --compiler=mingw32

Note, however, that all of the commands specified are always run, regardless of where ``saveopts`` is placed on the command line.

Configuration File Options

--------------------------
Normally, settings such as options and aliases are saved to the project's local `setup.cfg` file. But you can override this and save them to the global or per-user configuration files, or to a manually-specified filename.

``--global-config, -g``  
Save settings to the global `distutils.cfg` file inside the `distutils` package directory. You must have write access to that directory to use this option. You also can't combine this option with `-u` or `-f`.

``--user-config, -u``  
Save settings to the current user's `~/.pydistutils.cfg` (POSIX) or `$HOME/pydistutils.cfg` (Windows) file. You can't combine this option with `-g` or `-f`.

``--filename=FILENAME, -f FILENAME``  
Save settings to the specified configuration file to use. You can't combine this option with `-g` or `-u`. Note that if you specify a non-standard filename, the `distutils` and `setuptools` will not use the file's contents. This option is mainly included for use in testing.

These options are used by other `setuptools` commands that modify configuration files, such as the `alias` and `setopt` commands.

.. _setopt:

``setopt`` - Set a distutils or setuptools option in a config file

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

This command is mainly for use by scripts, but it can also be used as a quick and dirty way to change a distutils configuration option without having to remember what file the options are in and then open an editor.

**Example 1**. Set the default C compiler to `mingw32` (using long option names):

    setup.py setopt --command=build --option=compiler --set-value=mingw32

**Example 2**. Remove any setting for the distutils default package installation directory (short option names):

    setup.py setopt -c install -o install_lib -r

Options for the `setopt` command:
``--command=COMMAND, -c COMMAND``
Command to set the option for. This option is required.

``--option=OPTION, -o OPTION``
The name of the option to set. This option is required.

``--set-value=VALUE, -s VALUE``
The value to set the option to. Not needed if ``-r`` or ``--remove`` is set.

``--remove, -r``
Remove (unset) the option, instead of setting it.

In addition to the above options, you may use any of the `configuration file options`_ (listed under the `saveopts`_ command, above) to determine which distutils configuration file the option will be added to (or removed from).

.. _test:

``test`` - Build package and run a unittest suite
===============================================

When doing test-driven development, or running automated builds that need testing before they are deployed for downloading or use, it's often useful to be able to run a project's unit tests without actually deploying the project anywhere, even using the ``develop`` command. The `test` command runs a project's unit tests without actually deploying it, by temporarily putting the project's source on `sys.path`, after first running `build_ext -i` and `egg_info` to ensure that any C extensions and project metadata are up-to-date.

To use this command, your project's tests must be wrapped in a `unittest` test suite by either a function, a `TestCase` class or method, or a module or package containing `TestCase` classes. If the named suite is a module, and the module has an `additional_tests()` function, it is called and the result (which must be a `unittest.TestSuite`) is added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite. (Note: if your project specifies a `test_loader`, the rules for processing the chosen `test_suite` may differ; see the `test_loader` documentation for more details.)

Note that many test systems including `doctest` support wrapping their non-`unittest` tests in `TestSuite` objects. So, if you are using a test package that does not support this, we suggest you encourage its developers to implement test suite support, as this is a convenient and standard way to aggregate a collection of tests to be run under a common test harness.
By default, tests will be run in the "verbose" mode of the \`unittest\" package's text test runner, but you can get the "quiet" mode (just dots) if you supply the \`-q\" or \`--quiet\" option, either as a global option to the setup script (e.g. \`setup.py -q test\") or as an option for the \`test\" command itself (e.g. \`setup.py test -q\`). There is one other option available:

```
`--test-suite=NAME, -s NAME`

Specify the test suite (or module, class, or method) to be run (e.g. `some_module.test_suite`). The default for this option can be set by giving a `test_suite` argument to the `setup()` function, e.g.::

```python
setup(
    # ...
    test_suite = "my_package.tests.test_all"
)
```

If you did not set a `test_suite` in your `setup()` call, and do not provide a `--test-suite` option, an error will occur.

```
.. _upload:
```

```
`upload` - Upload source and/or egg distributions to PyPI

```

The `upload` command is implemented and documented at `https://docs.python.org/3.1/distutils/uploading.html`

Setuptools augments the `upload` command with support for `keyring <https://pypi.python.org/pypi/keyring>`_, allowing the password to be stored in a secure location and not in plaintext in the .pypirc file. To use keyring, first install keyring and set the password for the relevant repository, e.g.::

```bash
python -m keyring set <repository> <username>
Password for '<username>' in '<repository>': ********
```

Then, in .pypirc, set the repository configuration as normal, but omit the password. Thereafter, uploads will use the password from the keyring.

New in 20.1: Added keyring support.
``upload_docs`` - Upload package documentation to PyPI

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

PyPI now supports uploading project documentation to the dedicated URL
https://pythonhosted.org/<project>/.

The ``upload_docs`` command will create the necessary zip file out of a
documentation directory and will post to the repository.

Note that to upload the documentation of a project, the corresponding version
must already be registered with PyPI, using the distutils ``register``
command -- just like the ``upload`` command.

Assuming there is an ``Example`` project with documentation in the
subdirectory ``docs``, e.g.::

Example/
|-- example.py
|-- setup.cfg
|-- setup.py
|-- docs
 | |-- build
 | | `-- html
 | | `-- index.html
 | `-- tips_tricks.html
|-- conf.py
|-- index.txt
`-- tips_tricks.txt

You can simply pass the documentation directory path to the ``upload_docs``
command::

    python setup.py upload_docs --upload-dir=docs/build/html

If no ``--upload-dir`` is given, ``upload_docs`` will attempt to run the
``build_sphinx`` command to generate uploadable documentation.
For the command to become available, `Sphinx <http://sphinx.pocoo.org/>`
must be installed in the same environment as distribute.

As with other ``setuptools``-based commands, you can define useful
defaults in the ``setup.cfg`` of your Python project, e.g.:

.. code-block:: ini

    [upload_docs]
    upload-dir = docs/build/html

The ``upload_docs`` command has the following options:
``--upload-dir``
The directory to be uploaded to the repository.

``--show-response``
Display the full response text from server; this is useful for debugging PyPI problems.

``--repository=URL, -r URL``
The URL of the repository to upload to. Defaults to https://pypi.python.org/pypi (i.e., the main PyPI installation).

Extending and Reusing setuptools
--------------------------------

Creating ``distutils`` Extensions
=================================

It can be hard to add new commands or setup arguments to the distutils. But the ``setuptools`` package makes it a bit easier, by allowing you to distribute a distutils extension as a separate project, and then have projects that need the extension just refer to it in their ``setup_requires`` argument.

With ``setuptools``, your distutils extension projects can hook in new commands and ``setup()`` arguments just by defining "entry points". These are mappings from command or argument names to a specification of where to import a handler from. (See the section on `Dynamic Discovery of Services and Plugins` above for some more background on entry points.)

Adding Commands
---------------

You can add new ``setup`` commands by defining entry points in the ``distutils.commands`` group. For example, if you wanted to add a "foo" command, you might add something like this to your distutils extension project's setup script:

```python
setup(
    # ...
    entry_points = {
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
    },
)
```
(Assuming, of course, that the `foo` class in `mypackage.some_module` is a `setuptools.Command` subclass.)

Once a project containing such entry points has been activated on `sys.path`, (e.g. by running "install" or "develop" with a site-packages installation directory) the command(s) will be available to any `setuptools`-based setup scripts. It is not necessary to use the `--command-packages` option or to monkeypatch the `distutils.command` package to install your commands; `setuptools` automatically adds a wrapper to the distutils to search for entry points in the active distributions on `sys.path`. In fact, this is how setuptools' own commands are installed: the setuptools project's setup script defines entry points for them!

**Adding `setup()` Arguments**

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

Sometimes, your commands may need additional arguments to the `setup()` call. You can enable this by defining entry points in the `distutils.setup_keywords` group. For example, if you wanted a `setup()` argument called `bar_baz`, you might add something like this to your distutils extension project's setup script::

```python
setup(
    # ...
    entry_points = {
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
        "distutils.setup_keywords": [
            "bar_baz = mypackage.some_module:validate_bar_baz",
        ],
    },
)
```

The idea here is that the entry point defines a function that will be called to validate the `setup()` argument, if it's supplied. The `Distribution` object will have the initial value of the attribute set to `None`, and the validation function will only be called if the `setup()` call sets it to a non-None value. Here's an example validation function::

```python
def assert_bool(dist, attr, value):
    """Verify that value is True, False, 0, or 1""
    if bool(value) != value:
        raise DistutilsSetupError(
            "%r must be a boolean value (got %r)" % (attr, value)
        )
```

Your function should accept three arguments: the `Distribution` object, the attribute name, and the attribute value. It should raise a `DistutilsSetupError` (from the `distutils.errors` module) if the argument is invalid. Remember, your function will only be called with non-None values, and the default value of arguments defined this way is always None. So, your commands should always be prepared for the possibility that the attribute will be `None` when they access it later.

If more than one active distribution defines an entry point for the same `setup()` argument, *all* of them will be called. This allows multiple distutils extensions to define a common argument, as long as they agree on what values of that argument are valid.

Also note that as with commands, it is not necessary to subclass or monkeypatch the distutils `Distribution` class in order to add your arguments; it is sufficient to define the entry points in your extension, as long as any setup script using your extension lists your project in its `setup_requires` argument.

Adding new EGG-INF0 Files
------------------------

Some extensible applications or frameworks may want to allow third parties to develop plugins with application or framework-specific metadata included in the plugins' EGG-INF0 directory, for easy access via the `pkg_resources` metadata API. The easiest way to allow this is to create a distutils extension to be used from the plugin projects' setup scripts (via `setup_requires`) that defines a new setup keyword, and then uses that data to write an EGG-INF0 file when the `egg_info` command is run.

The `egg_info` command looks for extension points in an `egg_info.writers` group, and calls them to write the files. Here's a simple example of a distutils extension defining a setup argument `foo_bar`, which is a list of lines that will be written to `foo_bar.txt` in the EGG-INF0 directory of any project that uses the argument::

```python
class Extension(Extension):
    entry_points = {
        "distutils.setup_keywords": [  
            "foo_bar = setuptools.dist:assert_string_list",  
        ],  
        "egg_info.writers": [  
            "foo_bar.txt = setuptools.command.egg_info:write_arg",  
        ],  
    },
```
This simple example makes use of two utility functions defined by setuptools
for its own use: a routine to validate that a setup keyword is a sequence of
strings, and another one that looks up a setup argument and writes it to
a file. Here's what the writer utility looks like::

```python
def write_arg(cmd, basename, filename):
    argname = os.path.splitext(basename)[0]
    value = getattr(cmd.distribution, argname, None)
    if value is not None:
        value = '\n'.join(value)+'\n'
        cmd.write_or_delete_file(argname, filename, value)
```

As you can see, ``egg_info.writers`` entry points must be a function taking
three arguments: a ``egg_info`` command instance, the basename of the file to
write (e.g. ``"foo_bar.txt"``), and the actual full filename that should be
written to.

In general, writer functions should honor the command object's `dry_run`
setting when writing files, and use the `distutils.log` object to do any
console output. The easiest way to conform to this requirement is to use
the `cmd` object's `write_file()`, `delete_file()`, and
`write_or_delete_file()` methods exclusively for your file operations. See
those methods' docstrings for more details.

Adding Support for Revision Control Systems

If the files you want to include in the source distribution are tracked using
Git, Mercurial or SVN, you can use the following packages to achieve that:

- Git and Mercurial: `setuptools_scm <https://pypi.python.org/pypi/setuptools_scm>`_
- SVN: `setuptools_svn <https://pypi.python.org/pypi/setuptools_svn>`_

If you would like to create a plugin for `setuptools` to find files tracked
by another revision control system, you can do so by adding an entry point to
the `setuptools.file_finders` group. The entry point should be a function
accepting a single directory name, and should yield all the filenames within
that directory (and any subdirectories thereof) that are under revision
control.

For example, if you were going to create a plugin for a revision control system
called "foobar", you would write a function something like this:

```python
.. code-block:: python
```
def find_files_for_foobar(dirname):
    # loop to yield paths that start with `dirname`

And you would register it in a setup script using something like this:

    entry_points = {
        "setuptools.file_finders": [
            "foobar = my_foobar_module:find_files_for_foobar"
        ]
    }

Then, anyone who wants to use your plugin can simply install it, and their local setuptools installation will be able to find the necessary files.

It is not necessary to distribute source control plugins with projects that simply use the other source control system, or to specify the plugins in `setup_requires`. When you create a source distribution with the `sdist` command, setuptools automatically records what files were found in the `SOURCES.txt` file. That way, recipients of source distributions don't need to have revision control at all. However, if someone is working on a package by checking out with that system, they will need the same plugin(s) that the original author is using.

A few important points for writing revision control file finders:

* Your finder function MUST return relative paths, created by appending to the passed-in directory name. Absolute paths are NOT allowed, nor are relative paths that reference a parent directory of the passed-in directory.

* Your finder function MUST accept an empty string as the directory name, meaning the current directory. You MUST NOT convert this to a dot; just yield relative paths. So, yielding a subdirectory named `some/dir` under the current directory should NOT be rendered as `./some/dir` or `/somewhere/some/dir`, but *always* as simply `some/dir`.

* Your finder function SHOULD NOT raise any errors, and SHOULD deal gracefully with the absence of needed programs (i.e., ones belonging to the revision control system itself. It *may*, however, use `distutils.log.warn()` to inform the user of the missing program(s).

Subclassing `Command`
----------------------

Sorry, this section isn't written yet, and neither is a lot of what's below this point.

XXX
Reusing ``setuptools`` Code
=================================

``ez_setup``
----------

XXX

``setuptools.archive_util``
--------------------------

XXX

``setuptools.sandbox``
----------------------

XXX

``setuptools.package_index``
----------------------------

XXX

Mailing List and Bug Tracker
============================

Please use the `distutils-sig mailing list`_ for questions and discussion about setuptools, and the `setuptools bug tracker`_ ONLY for issues you have confirmed via the list are actual bugs, and which you have reduced to a minimal set of steps to reproduce.

.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/
.. _setuptools bug tracker: https://github.com/pypa/setuptools/

Found in path(s):
* /opt/cola/permits/1113224970_1607387370.26/0/setuptools-20-7-0-1-tar-gz/setuptools-20.7.0/docs/setuptools.txt

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new XElement("fm",
    new XElement("p", "Text placed in the public domain by Moby Lexical Tools, 1992."),
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The punycode implementation is based on the sample code in RFC 3492

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https://github.com/santoshsahoo/nbench (mirror of the same code)

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2000-01-14

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*
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* [link ChannelHandler] itself does not provide many methods, but you usually have to implement one of its
* subtypes:
* <ul>
* <li>[link ChannelInboundHandler] to handle inbound I/O events, and</li>
* <li>[link ChannelOutboundHandler] to handle outbound I/O operations.</li>
* </ul>
* </p>
* </p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>[link ChannelInboundHandlerAdapter] to handle inbound I/O events,</li>
* <li>[link ChannelOutboundHandlerAdapter] to handle outbound I/O operations, and</li>
* <li>[link ChannelDuplexHandler] to handle both inbound and outbound events</li>
* </ul>
The context object

A `@link ChannelHandler` is provided with a `@link ChannelHandlerContext` object. A `@link ChannelHandler` is supposed to interact with the `@link ChannelPipeline` it belongs to via a context object. Using the context object, the `@link ChannelHandler` can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using `@link AttributeKey`)s which is specific to the handler.

State management

A `@link ChannelHandler` often needs to store some stateful information. The simplest and recommended approach is to use member variables:

```java
public interface Message {
    // your methods here
}

public class DataServerHandler extends `@link SimpleChannelInboundHandler<Message>` {
    private boolean loggedIn;

    @Override
    public void channelRead0(`@link ChannelHandlerContext` ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }

    // ...
}
```

Because the handler instance has a state variable which is dedicated to one connection, you have to create a new handler instance for each new channel to avoid a race condition where a unauthenticated client can get the confidential information:
* // Create a new handler instance per channel.
* // See [@link ChannelInitializer#initChannel(Channel)].
* public class DataServerInitializer extends [@link ChannelInitializer]<Channel> {  
*     {@code @Override}  
*     public void initChannel([@link Channel] channel) {  
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);  
*     }  
* }  
*  
* </pre>  
*  
* <h4>Using [@link AttributeKey]s</h4>  
*  
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use [@link AttributeKey]s which is provided by
* [@link ChannelHandlerContext]:
*  
* public interface Message {  
*     // your methods here  
* }  
*  
* {[@code @Sharable}
* public class DataServerHandler extends [@link SimpleChannelInboundHandler]<Message> {  
*     private final [@link AttributeKey]<Boolean> auth =  
*         [@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth"));  
*  
* {[@code @Override}
* public void channelRead([@link ChannelHandlerContext] ctx, Message message) {  
*     // attribute set/true
*     if (message instanceof LoginMessage) {  
*         authenticate((LoginMessage) o);  
*         &lt;b&gt;attr.set(true)&lt;/b&gt;;  
*     } else (message instanceof GetDataMessage) {  
*         if (&lt;b&gt;Boolean.TRUE.equals(attr.get())&lt;/b&gt;) {  
*             ctx.writeAndFlush(fetchSecret((GetDataMessage) o));  
*         } else {  
*             fail();  
*         }  
*     }  
* }  
*  
* }  
* </pre>  
*  
* Now that the state of the handler is attached to the [@link ChannelHandlerContext], you can add the
* same handler instance to different pipelines:
*  
* public class DataServerInitializer extends [@link ChannelInitializer]<Channel> {  
*
* private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
* {
*     @code @Override
*     public void initChannel{@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }<pre>
* </pre>
* 
* </h4>The @code @Sharable annotation</h4>
* <p>
* In the example above which used an @link AttributeKey, you might have noticed the @code @Sharable annotation.
* <p>
* If a @link ChannelHandler is annotated with the @code @Sharable annotation, it means you can create an instance of the handler just once and add it to one or more @link ChannelPipeline's multiple times without a race condition.
* <p>
* If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like a href="http://www.javaconcurrencyinpractice.com/annotations/doc/"the JCIP annotations</a>.
* 
* </h3>Additional resources worth reading</h3>
* <p>
* Please refer to the @link ChannelHandler, and @link ChannelPipeline to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.
* /

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(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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 * /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONAwareEx.java
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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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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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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1.505 golang-jwt v4.0.0-preview1

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1.506 powermock-core 1.7.4
1.507 ossp-uuid 1.6.2-1.5build2

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** ui128.c: implementation of 128-bit unsigned integer arithmetic
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uuid.h: library API definition

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** uuid_str.h: string formatting functions
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** uuid_sha1.h: SHA-1 API definition
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** uuid.c: PostgreSQL Binding (C part)
*/

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** ui64.h: API declaration
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** uuid_time.c: Time Management
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OSSP uuid UUID_VERSION_STR

=head1 DESCRIPTION

B<OSSP uuid> is an ISO-C:1999 application programming interface (API) and corresponding command line interface (CLI) for the generation of DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 compliant I<Universally Unique Identifier> (UUID). It supports DCE 1.1 variant UUIDs of version 1 (time and node based), version 3 (name based, MD5), version 4 (random number based) and version 5 (name based, SHA-1). Additional API bindings are provided for the languages ISO-C++:1998, Perl:5 and PHP:4/5. Optional backward compatibility exists for the ISO-C DCE-1.1 and Perl Data::UUID APIs.

UUIDs are 128 bit numbers which are intended to have a high likelihood of uniqueness over space and time and are computationally difficult to guess. They are globally unique identifiers which can be locally generated without contacting a global registration authority. UUIDs are intended as unique identifiers for both mass tagging objects with an extremely short lifetime and to reliably identifying very persistent objects across a network.

This is the ISO-C application programming interface (API) of B<OSSP uuid>.

=head2 UUID Binary Representation

According to the DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122
standards, a DCE 1.1 variant UUID is a 128 bit number defined out of 7 fields, each field a multiple of an octet in size and stored in network byte order:

```
| version ---> | <--- |
| [4] |

| time_low | time_mid | _and_version |
| [32] | [16] | [16] |
|<------------------------||<--------------||<--------------|
| MSB | || | |

| clk_seq clk_seq node | hi_res low [48] |
| [5-6] | [8] |
|<-->|<--|

An example of a UUID binary representation is the octet stream C<0xF8 0x1D 0x1D 0x4F 0xAE 0xAE 0xAE 0x7D 0x11 0xB0 0x0D 0x0C 0x0B 0x65 0x00 0xA0 0xC9 0x1E 0x6B 0xF6>. The binary representation format is exactly what the B<OSSP uuid> API functions B<uuid_import>() and B<uuid_export>() deal with under C<UUID_FMT_BIN>.

=head2 UUID ASCII String Representation
According to the DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 standards, a DCE 1.1 variant UUID is represented as an ASCII string consisting of 8 hexadecimal digits followed by a hyphen, then three groups of 4 hexadecimal digits each followed by a hyphen, then 12 hexadecimal digits. Formally, the string representation is defined by the following grammar:

```
uuid                        = <time_low> "-" <time_mid> "-" <time_high_and_version> "-" <clock_seq_high_and_reserved> "-" <clock_seq_low> "-" <node>

| time_low                    | = 4*<hex_octet> |
| time_mid                    | = 2*<hex_octet> |
| time_high_and_version       | = 2*<hex_octet> |
| clock_seq_high_and_reserved | = <hex_octet>   |
| clock_seq_low              | = 6*<hex_octet> |
| node                        | = 6*<hex_octet> |
| hex_octet                   | = <hex_digit> <hex_digit> |
| hex_digit                   | = "0"|"1"|"2"|"3"|"4"|"5"|"6"|"7"|"8"|"9"|"a"|"b"|"c"|"d"|"e"|"f" |
|                            | = "A"|"B"|"C"|"D"|"E"|"F" |
```

An example of a UUID string representation is the ASCII string "C\<f81d4fae-7dec-11d0-a765-00a0c91e6bf6>". The string representation format is exactly what the B\<OSSP uuid\> API functions B\<uuid_import>() and B\<uuid_export>() deal with under C\<UUID_FMT_STR\>.

Notice: a corresponding URL can be generated out of a ASCII string representation of an UUID by prefixing with "C\langleurn:uuid:" as in "C\langleurn:uuid:f81d4fae-7dec-11d0-a765-00a0c91e6bf6>".

=head2 UUID Single Integer Value Representation

According to the ISO/IEC 11578:1996 and ITU-T Rec. X.667 standards, a DCE 1.1 variant UUID can be also represented as a single integer value consisting of a decimal number with up to 39 digits.

An example of a UUID single integer value representation is the decimal number "C\<329800735698586629295641978511506172918>". The string representation format is exactly what the B\<OSSP uuid\> API functions B\<uuid_import>() and B\<uuid_export>() deal with under C\<UUID_FMT_SIV\>.

Notice: a corresponding ISO OID can be generated under the "\{joint-iso-itu-t(2) uuid(25)\}" arc out of a single integer value representation of a UUID by prefixing with "C\<2.25.". An example OID is "C\<2.25.329800735698586629295641978511506172918>". Additionally,
an URL can be generated by further prefixing with "C<urn:oid:>") as in "C<urn:oid:2.25.329800735698586629295641978511506172918>".

=head2 UUID Variants and Versions

A UUID has a variant and version. The variant defines the layout of the UUID. The version defines the content of the UUID. The UUID variant supported in BOSSP uuid is the DCE 1.1 variant only. The DCE 1.1 UUID variant versions supported in BOSSP uuid are:

=over 4

=item B<Version 1> (time and node based)

These are the classical UUIDs, created out of a 60-bit system time, a 14-bit local clock sequence and 48-bit system MAC address. The MAC address can be either the real one of a physical network interface card (NIC) or a random multi-cast MAC address. Version 1 UUIDs are usually used as one-time global unique identifiers.

=item B<Version 3> (name based, MD5)

These are UUIDs which are based on the 128-bit MD5 message digest of the concatenation of a 128-bit namespace UUID and a name string of arbitrary length. Version 3 UUIDs are usually used for non-unique but repeatable message digest identifiers.

=item B<Version 4> (random data based)

These are UUIDs which are based on just 128-bit of random data. Version 4 UUIDs are usually used as one-time local unique identifiers.

=item B<Version 5> (name based, SHA-1)

These are UUIDs which are based on the 160-bit SHA-1 message digest of the concatenation of a 128-bit namespace UUID and a name string of arbitrary length. Version 5 UUIDs are usually used for non-unique but repeatable UUIDs are guaranteed to be unique through combinations of hardware addresses, time stamps and random seeds. There is a reference in the UUID to the hardware (MAC) address of the first network interface card (NIC) on the host which generated the UUID -- this reference is intended to ensure the UUID will be unique in space as the MAC
address of every network card is assigned by a single global authority (IEEE) and is guaranteed to be unique. The next component in a UUID is a timestamp which, as clock always (should) move forward, will be unique in time. Just in case some part of the above goes wrong (the hardware address cannot be determined or the clock moved steps backward), there is a random clock sequence component placed into the UUID as a "catch-all" for uniqueness.

Version 3 and version 5 UUIDs are guaranteed to be inherently globally unique if the combination of namespace and name used to generate them is unique.

Version 4 UUIDs are not guaranteed to be globally unique, because they are generated out of locally gathered pseudo-random numbers only. Nevertheless there is still a high likelihood of uniqueness over space and time and that they are computationally difficult to guess.

=head2 Nil UUID

There is a special Nil UUID consisting of all octets set to zero in the binary representation. It can be used as a special UUID value which does not conflict with real UUIDs.

=head1 APPLICATION PROGRAMMING INTERFACE

The ISO-C Application Programming Interface (API) of OSSP uuid consists of the following components.

=head2 CONSTANTS

The following constants are provided:

=over 4

=item B<UUID_VERSION>

The hexadecimal encoded OSSP uuid version. This allows compile-time checking of the OSSP uuid version. For run-time checking use B<uuid_version>() instead.

The hexadecimal encoding for a version "$I<v>.$I<r>$I<t>$I<l>" is calculated with the GNU shtool B<version> command and is (in Perl-style for concise description) "sprintf('0x%x%02x%d%02x', $I<v>, $I<r>, {qw(s 9 . 2 b 1 a 0)}->{$I<t>}, ($I<t> eq 's' ? 99 : $I<l>))", i.e., the version 0.9.6 is encoded as "0x009206".

=item B<UUID_LEN_BIN>, B<UUID_LEN_STR>, B<UUID_LEN_SIV>
The number of octets of the UUID binary and string representations. Notice that the lengths of the string representation (B<UUID_LEN_STR>) and the lengths of the single integer value representation (B<UUID_LEN_SIV>) do not include the necessary C<NUL> termination character.

=item B<UUID_MAKE_V1>, B<UUID_MAKE_V3>, B<UUID_MAKE_V4>, B<UUID_MAKE_V5>, B<UUID_MAKE_MC>

The I<mode> bits for use with B<uuid_make>(). The B<UUID_MAKE_V>I<N> specify which UUID version to generate. The B<UUID_MAKE_MC> forces the use of a random multi-cast MAC address instead of the real physical MAC address in version 1 UUIDs.

=item B<UUID_RC_OK>, B<UUID_RC_ARG>, B<UUID_RC_MEM>, B<UUID_RC_SYS>, B<UUID_RC_INT>, B<UUID_RC_IMP>

The possible numerical return-codes of API functions. The C<UUID_RC_OK> indicates success, the others indicate errors. Use B<uuid_error>() to translate them into string versions.

=item B<UUID_FMT_BIN>, B<UUID_FMT_STR>, B<UUID_FMT_SIV>, B<UUID_FMT_TXT>

The I<fmt> formats for use with B<uuid_import>() and B<uuid_export>(). The B<UUID_FMT_BIN> indicates the UUID binary representation (of length B<UUID_LEN_BIN>), the B<UUID_FMT_STR> indicates the UUID string representation (of length B<UUID_LEN_STR>), the B<UUID_FMT_SIV> indicates the UUID single integer value representation (of maximum length B<UUID_LEN_SIV>) and the B<UUID_FMT_TXT> indicates the textual description (of arbitrary length) of a UUID.

=over 4
=item uuid_rc_t B<uuid_create>(uuid_t **I<uuid>);

Create a new UUID object and store a pointer to it in C<*I<uuid>>. A UUID object consists of an internal representation of a UUID, the internal PRNG and MD5 generator contexts, and cached MAC address and timestamp information. The initial UUID is the I<Nil> UUID.

=item uuid_rc_t B<uuid_destroy>(uuid_t *I<uuid>);
Destroy UUID object I<uuid>.

=item uuid_rc_t B<uuid_clone>(const uuid_t *I<uuid>, uuid_t **I<uuid_clone>);

Clone UUID object I<uuid> and store new UUID object in I<uuid_clone>.

=item uuid_rc_t B<uuid_isnil>(const uuid_t *I<uuid>, int *I<result>);

Checks whether the UUID in I<uuid> is the I<Nil> UUID. If this is the case, it returns I<true> in C<*I<result>>. Else it returns I>false> in C<*I<result>>.

=item uuid_rc_t B<uuid_compare>(const uuid_t *I<uuid>, const uuid_t *I<uuid2>, int *I<result>);

Compares the order of the two UUIDs in I<uuid1> and I<uuid2> and returns the result in C<*I<result>>: C<-1> if I<uuid1> is smaller than I<uuid2>, C<0> if I<uuid1> is equal to I<uuid2> and C<+1> if I<uuid1> is greater than I<uuid2>.

=item uuid_rc_t B<uuid_import>(uuid_t *I<uuid>, uuid_fmt_t I<fmt>, const void *I<data_ptr>, size_t I<data_len>);

Imports a UUID I<uuid> from an external representation of format I<fmt>. The data is read from the buffer at I<data_ptr> which contains at least I<data_len> bytes.

The format of the external representation is specified by I<fmt> and the minimum expected length in I<data_len> depends on it. Valid values for I<fmt> are B<UUID_FMT_BIN>, B<UUID_FMT_STR> and B<UUID_FMT_SIV>.

=item uuid_rc_t B<uuid_export>(const uuid_t *I<uuid>, uuid_fmt_t I<fmt>, void *I<data_ptr>, size_t I<data_len>);

Exports a UUID I<uuid> into an external representation of format I<fmt>. Valid values for I<fmt> are B<UUID_FMT_BIN>, B<UUID_FMT_STR>, B<UUID_FMT_SIV> and B<UUID_FMT_TXT>.

The data is written to the buffer whose location is obtained by dereferencing I<data_ptr> after a "cast" to the appropriate pointer-to-pointer type. Hence the generic pointer argument I<data_ptr> is expected to be a pointer to a "pointer of a particular type", i.e., it has to be of type "C<unsigned char ***" for B<UUID_FMT_BIN> and "C<char ***" for B<UUID_FMT_STR>, B<UUID_FMT_SIV> and B<UUID_FMT_TXT>.

The buffer has to be room for at least C<*I<data_len>> bytes. If the value of the pointer after "casting" and dereferencing I<data_ptr> is C<NULL>, I<data_len> is ignored as input and a new buffer is allocated and returned in the pointer after "casting" and dereferencing.
If I<data_ptr> is not C<NULL>, the number of available bytes in the buffer has to be provided in C<*I<data_len> and the number of actually written bytes are returned in C<*I<data_len> again. The minimum required buffer length depends on the external representation as specified by I<fmt> and is at least B<UUID_LEN_BIN> for B<UUID_FMT_BIN>, B<UUID_LEN_STR> for B<UUID_FMT_STR> and B<UUID_LEN_SIV> for B<UUID_FMT_SIV>. For B<UUID_FMT_TXT> a buffer of unspecified length is required and hence it is recommended to allow B<OSSP uuid> to allocate the buffer as necessary.

=item uuid_rc_t B<uuid_load>(uuid_t *I<uuid>, const char *I<name>);

Loads a pre-defined UUID value into the UUID object I<uuid>. The following I<name> arguments are currently known:

=over 4
=item I<name> I<UUID>
=item nil 00000000-0000-0000-0000-000000000000
=item ns:DNS 6ba7b810-9dad-11d1-80b4-00c04fd430c8
=item ns:URL 6ba7b811-9dad-11d1-80b4-00c04fd430c8
=item ns:OID 6ba7b812-9dad-11d1-80b4-00c04fd430c8
=item ns:X500 6ba7b814-9dad-11d1-80b4-00c04fd430c8
=back

The "C<ns:>I<XXX>" are names of pre-defined name-space UUIDs for use in the generation of DCE 1.1 version 3 and version 5 UUIDs.

=item uuid_rc_t B<uuid_make>(uuid_t *I<uuid>, unsigned int I<mode>, ...);

Generates a new UUID in I<uuid> according to I<mode> and optional arguments (dependent on I<mode>).

If I<mode> contains the C<UUID_MAKE_V1> bit, a DCE 1.1 variant UUID of version 1 is generated. Then optionally the bit C<UUID_MAKE_MC> forces the use of random multi-cast MAC address instead of the real physical MAC address (the default). The UUID is generated out of the 60-bit current system time, a 12-bit clock sequence and the 48-bit MAC address.

If I<mode> contains the C<UUID_MAKE_V3> or C<UUID_MAKE_V5> bit, a DCE
1.1 variant UUID of version 3 or 5 is generated and two additional arguments are expected: first, a namespace UUID object (C<uuid_t *>). Second, a name string of arbitrary length (C<const char *>). The UUID is generated out of the 128-bit MD5 or 160-bit SHA-1 from the concatenated octet stream of namespace UUID and name string.

If I<mode> contains the C<UUID_MAKE_V4> bit, a DCE 1.1 variant UUID of version 4 is generated. The UUID is generated out of 128-bit random data.

=item char *B<uuid_error>(uuid_rc_t I<rc>);

Returns a constant string representation corresponding to the return-code I<rc> for use in displaying B<OSSP uuid> errors.

=item unsigned long B<uuid_version>(void);

Returns the hexadecimal encoded B<OSSP uuid> version as compiled into the library object files. This allows run-time checking of the B<OSSP uuid> version. For compile-time checking use C<UUID_VERSION> instead.

=back

=head1 EXAMPLE

The following shows an example usage of the API. Error handling is omitted for code simplification and has to be re-added for production code.

/* generate a DCE 1.1 v1 UUID from system environment */
char *uuid_v1(void)
{
uuid_t *uuid;
char *str;

uuid_create(&uuid);
uuid_make(uuid, UUID_MAKE_V1);
str = NULL;
uuid_export(uuid, UUID_FMT_STR, &str, NULL);
uuid_destroy(uuid);
return str;
}

/* generate a DCE 1.1 v3 UUID from an URL */
char *uuid_v3(const char *url)
{
uuid_t *uuid;
uuid_t *uuid_ns;
char *str;

uuid_create(&uuid);
uuid_create(&uuid_ns);
uuid_load(uuid_ns, "ns:URL");
uuid_make(uuid, UUID_MAKE_V3, uuid_ns, url);
str = NULL;
uuid_export(uuid, UUID_FMT_STR, &str, NULL);
uuid_destroy(uuid_ns);
uuid_destroy(uuid);
return str;
}

=head1 SEE ALSO

The following are references to `UUID` documentation and specifications:

=over 4

=item

B<A Universally Unique IDentifier (UUID) URN Namespace>,
P. Leach, M. Mealling, R. Salz,
IETF RFC-4122,
July 2005, 32 pages,
http://www.ietf.org/rfc/rfc4122.txt

=item

Information Technology -- Open Systems Interconnection (OSI),
B<Procedures for the operation of OSI Registration Authorities:
Generation and Registration of Universally Unique Identifiers (UUIDs)
and their Use as ASN.1 Object Identifier Components>,
December 2004, 25 pages,

=item

B<DCE 1.1: Remote Procedure Call>,
appendix B<Universally Unique Identifier>,
Open Group Technical Standard
Document Number C706, August 1997, 737 pages,
(supersedes C309 DCE: Remote Procedure Call 8/1994,
which was basis for ISO/IEC 11578:1996 specification),
http://www.opengroup.org/publications/catalog/c706.htm
Information technology -- Open Systems Interconnection (OSI),
B<Remote Procedure Call (RPC)>,
ISO/IEC 11578:1996,
August 2001, 570 pages, (CHF 340.00),
http://www.iso.ch/cate/d2229.html

=item

B<HTTP Extensions for Distributed Authoring (WebDAV)>,
section B<6.4.1 Node Field Generation Without the IEEE 802 Address>,
IETF RFC-2518,
February 1999, 94 pages,
http://www.ietf.org/rfc/rfc2518.txt

=item

B<DCE 1.1 compliant UUID functions>,
FreeBSD manual pages uuid(3) and uuidgen(2),
http://www.freebsd.org/cgi/man.cgi?query=uuid&manpath=FreeBSD+6.0-RELEASE

=back

=head1 HISTORY

B<OSSP uuid> was implemented in January 2004 by Ralf S. Engelschall
E<lt>rse@engelschall.comE<gt>. It was prompted by the use of UUIDs
in the B<OSSP as> and B/OpenPKG> projects. It is a clean room
implementation intended to be strictly standards compliant and maximum
portable.

=head1 SEE ALSO

uuid(1), uuid-config(1), OSSP::uuid(3).

=cut

Found in path(s):
* /opt/cola/permits/1129089660_1612173937.92/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/uuid.pod
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#### This file is part of OSSP uuid, a library for the generation
#### of UUIDs which can found at http://www.ossp.org/pkg/lib/uuid/
## Open Source Used In HyperFlex HX Data Platform 4.5(2d)  5067

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### uuid.tm: Perl XS typemap for xsubpp(1)

### TYPEMAP

```c
    uuid_t *  T_PTRREF
    uuid_t ** T_PTRREF
    uuid_rc_t T_IV
    uuid_fmt_t T_IV
    int *     T_PV
    size_t *  T_PV
    const void * T_PV
    void **  T_PV
```

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**
** uuid_dce.h: DCE 1.1 compatibility API definition
*/

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##
## uuid.pc.in: pkg-config(1) specification
Open Source Used In HyperFlex HX Data Platform 4.5(2d)  5069

##

prefix=@prefix@
exec_prefix=${prefix}
includedir=${prefix}/include
libdir=${exec_prefix}/lib

Name: OSSP uuid
Description: Universally Unique Identifier (UUID) Library
Version: @UUID_VERSION_RAW@
URL: http://www.ossp.org/pkg/lib/uuid/
Cflags: -I${includedir}
Libs: -L${libdir} -luuid
Libs.private: @LIBS@

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**
** uuid_md5.c: MD5 API implementation
*/
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**
** uuid.xs: Perl Binding (Perl/XS part)
*/

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** uuid.c: library API implementation
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###
### OSSP uuid - Universally Unique Identifier
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## OSSP uuid - Universally Unique Identifier (C++ API)

### VERSION

OSSP uuid UUID_VERSION_STR

### DESCRIPTION

B<uuid++> is the ISO-C++ language binding of the B<OSSP uuid> C API. It provides a thin ISO-C++ class B<uuid> wrapping the ISO-C API type B<uuid_t>.

### APPLICATION PROGRAMMING INTERFACE

The ISO-C++ Application Programming Interface (API) of B<OSSP uuid> consists of the following components:

### CONSTANTS
The constants are the same to those provided by the ISO-C API. See uuid(3) for details.

=head2 CLASSES

The following classes are provided:

=over 4

=item B<uuid>

This is the class corresponding to the C API type B<uuid_t>. It is the main object.

=item B<uuid_error_t>

This is the class corresponding to the C API function B<uuid_error>. It is the object thrown as an exception in case of any errors.

=back

=head2 METHODS

The following methods are provided:

=over 4

=item B<uuid>();

The standard constructor.

=item B<uuid>(const uuid &_obj);

The copy constructor for B<uuid> class.

=item B<uuid>(const uuid_t * _obj);

The import constructor for C API objects.

=item B<uuid>(const void * _bin);

The import constructor for binary representation.

=item B<uuid>(const char * _str);

The import constructor for string representation.
=item ~B<uuid>();

The standard destructor for B<uuid> class.

=item uuid &B<uuid>::operator=(const uuid &_obj);

The assignment operator corresponding to the copy constructor.

=item uuid &B<uuid>::operator=(const uuid_t * _obj);

The assignment operator corresponding to the import constructor for C API objects.

=item uuid &B<uuid>::operator=(const void * _bin);

The assignment operator corresponding to the import constructor for binary representation.

=item uuid &B<uuid>::operator=(const char * _str);

The assignment operator corresponding to the import constructor for string and single integer value representation.

=item uuid B<uuid::clone>(void);

Regular method corresponding to the C API function B<uuid_clone>.

=item void B<uuid::load>(const char * _name);

Regular method corresponding to the C API function B<uuid_load>.

=item void B<uuid::make>(unsigned int _mode, ...);

Regular method corresponding to the C API function B<uuid_make>.

=item int B<uuid::isnil>(void);

Regular method corresponding to the C API function B<uuid_isnil>.

=item int B<uuid::compare>(const uuid &_obj);

Regular method corresponding to the C API function B<uuid_compare>.

=item int B<uuid::operator==>(const uuid &_obj);

The comparison operator corresponding to B<uuid_compare> usage for equality.

=item int B<uuid::operator!=(const uuid &_obj);

The comparison operator corresponding to B<uuid_compare> usage for inequality.
The comparison operator corresponding to `B<uuid_compare>` usage for less-than.

The comparison operator corresponding to `B<uuid_compare>` usage for less-than-or-equal.

The comparison operator corresponding to `B<uuid_compare>` usage for greater-than.

The comparison operator corresponding to `B<uuid_compare>` usage for greater-than-or-equal.

Regular method corresponding to the C API function `B<uuid_import>` for binary representation usage.

Regular method corresponding to the C API function `B<uuid_import>` for string representation usage.

Regular method corresponding to the C API function `B<uuid_export>` for binary representation usage.

Regular method corresponding to the C API function `B<uuid_export>` for string representation usage.

Regular method corresponding to the C API function `B<uuid_export>` for single integer value representation usage.

Regular method corresponding to the C API function `B<uuid_export>` for textual summary representation usage.

Regular method corresponding to the C API function `B<uuid_version>`.

The standard constructor for `B<uuid_error_t>` class.
The standard constructor for B<uuid_error_t> class with return code initialization.

The standard destructor for B<uuid_error_t> class.

Regular method for setting the return code.

Regular method for fetching the return code.

Regular method for fetching the string corresponding to the current return code.

EXAMPLE

The following shows an example usage of the C++ API. Exception handling is omitted for code simplification and has to be re-added for production code.

/* generate a DCE 1.1 v1 UUID from system environment */
char *uuid_v1(void)
{
    uuid id;
    char *str;

    id.make(UUID_MAKE_V1);
    str = id.string();
    return str;
}

/* generate a DCE 1.1 v3 UUID from an URL */
char *uuid_v3(const char *url)
{
    uuid id;
    uuid id ns;
    char *str;

    id ns.load("ns:URL");
    id.make(UUID_MAKE_V3, &id ns, url);
str = id.string();
    return str;
}

=head1 SEE ALSO

uuid(3).

=cut

Found in path(s):
* /opt/cola/permits/1129089660_1612173937.92/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/uuid++.pod

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##
## uuid_cli.pod: manual page
##
##=pod

=head1 NAME

B<OSSP uuid> - B<Universally Unique Identifier Command-Line Tool>
=head1 VERSION

OSSP uuid UUID_VERSION_STR

=head1 SYNOPSIS

B<uuid>
[B<-v> I<version>]
[B<-m>]
[B<-n> I<count>]
[B<-l>]
[B<-F> I<format>]
[B<-o> I<filename>]
[I<namespace> I<name>]

B<uuid>
B<-d>
[B<-r>]
[B<-o> I<filename>]
I<uuid>

=head1 DESCRIPTION

B<OSSP uuid> is a ISO-C:1999 application programming interface (API) and corresponding command line interface (CLI) for the generation of DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 compliant I<Universally Unique Identifier> (UUID). It supports DCE 1.1 variant UUIDs of version 1 (time and node based), version 3 (name based, MD5), version 4 (random number based) and version 5 (name based, SHA-1). Additional API bindings are provided for the languages ISO-C++:1998, Perl:5 and PHP:4/5. Optional backward compatibility exists for the ISO-C DCE-1.1 and Perl Data::UUID APIs.

UUIDs are 128 bit numbers which are intended to have a high likelihood of uniqueness over space and time and are computationally difficult to guess. They are globally unique identifiers which can be locally generated without contacting a global registration authority. UUIDs are intended as unique identifiers for both mass tagging objects with an extremely short lifetime and to reliably identifying very persistent objects across a network.

This is the command line interface (CLI) of B<OSSP uuid>. For a detailed description of UUIDs see the documentation of the application programming interface (API) in uuid(3).

=head1 OPTIONS
Sets the version of the generated DCE 1.1 variant UUID. Supported
are \texttt{<version>} "C<1>", "C<3>", "C<4>", and "C<5>". The default is "C<1>".

For version 3 and version 5 UUIDs the additional command line arguments
\texttt{<name>\texttt{<namespace>}} have to be given. The \texttt{<namespace>}
is either a UUID in string representation or an identifier for internally
pre-defined namespace UUIDs (currently known are "C<ns:DNS>",
"C<ns:URL>", "C<ns:OID>", and "C<ns:X500>"). The \texttt{<name>}
is a string of arbitrary length.

Forces the use of a random multi-cast MAC address when generating
version 1 UUIDs. By default the real physical MAC address of the system
is used.

Generate \texttt{<count>} UUIDs instead of just a single one (the default).

If option \texttt{<n>} is used with a \texttt{<count>\texttt{<count>}} greater than \texttt{C<1>}, then this
option can enforce the reset the UUID context for each generated UUID.
This makes no difference for \texttt{<version> C<3>, C<4> and C<5> UUIDs. But
version C<1> UUIDs are based on the previously generated UUID which is
remembered in the UUID context of the API. Option \texttt{<1>} deletes the
remembered UUID on each iteration.

Representation format for importing or exporting an UUID. The
following (case insensitive) format identifiers are currently recognized:

This is the raw 128 bit network byte order binary representation of a
UUID. Example is the octet stream C<0xF8 0x1D 0x4F 0xAE 0x7D 0xEC 0x11
0xD0 0xA7 0x65 0x00 0xA0 0xC9 0x1E 0x6B 0xF6>.

(string representation)
This is the 36 character hexadecimal ASCII string representation of a UUID. Example is the string "C<f81d4fae-7dec-11d0-a765-00a0c91e6bf6>".

=item C<SIV> (single integer value representation)

This is the maximum 39 character long single integer value representation of a UUID. Example is the string "C<329800735698586629295641978511506172918>".

=back

=item B<-o> I<filename>

Write output to I<filename> instead of to F<stdout>.

=item B<-d>

Decode a given UUID (given as a command line argument or if the command line argument is "C<->" the UUID is read from F<stdin>) and dump textual information about the UUID.

=back

=head1 EXAMPLES

# generate DCE 1.1 v1 UUID (time and node based)
$ uuid -v1
01c47915-4777-11d8-bc70-0090272ff725

# decode and dump DCE 1.1 v1 UUID (time and node based)
$ uuid -d 01c47915-4777-11d8-bc70-0090272ff725
code: STR: 01c47915-4777-11d8-bc70-0090272ff725
SIV: 2349374037528578887923094374772111141
version: 1 (time and node based)
clock: 15472 (usually random)
node: 00:90:27:2f:f7:25 (global unicast)

# generate DCE 1.1 v3 UUID (name based)
$ uuid -v3 ns:URL http://www.oss.org/
02d9e6d5-9467-382e-8f9b-9300a64ac3cd

# decode and dump DCE 1.1 v3 UUID (name based)
$ uuid -d 02d9e6d5-9467-382e-8f9b-9300a64ac3cd
code: STR: 02d9e6d5-9467-382e-8f9b-9300a64ac3cd
SIV: 3789866285607910888100818383505376205
version: 3 (name based, MD5)
(not decipherable: MD5 message digest only)

# generate DCE 1.1 v4 UUID 4 (random data based)
$ uuid -v4
eb424026-6f54-4ef8-a4d0-bb658a1fc6cf

# decode and dump DCE 1.1 v4 UUID 4 (random data based)
$ uuid -d eb424026-6f54-4ef8-a4d0-bb658a1fc6cf
encode: STR:     eb424026-6f54-4ef8-a4d0-bb658a1fc6cf
SIV:     312712571721458096795100956955942831823
version: 4 (random data based)
(no semantics: random data only)

=head1 SEE ALSO

uid(3), OSSP::uid(3).
=cut

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**
** uuid_sha1.c: SHA-1 API implementation
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**
** uuid.c: PHP/Zend API (language: C)
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** ui128.h: API declaration
*/

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** uuid_prng.h: PRNG API definition
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** uuid_prng.c: PRNG API implementation
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uuid.pod: Perl Binding (Perl/POD part)

=head1 NAME

OSSP::uuid - B<OSSP uuid> Perl Binding

=head1 DESCRIPTION

B<OSSP uuid> is a ISO-C:1999 application programming interface (API) and corresponding command line interface (CLI) for the generation of DCE 1.1, ISO/IEC 11578:1996 and RFC 4122 compliant Universally Unique Identifier (UUID). It supports DCE 1.1 variant UUIDs of version 1 (time and node based), version 3 (name based, MD5), version 4 (random number based) and version 5 (name based, SHA-1). Additional API bindings are provided for the languages ISO-C++:1998, Perl:5 and PHP:4/5. Optional backward compatibility exists for the ISO-C DCE-1.1 and Perl Data::UUID APIs.

B<OSSP::uuid> is the Perl binding to the B<OSSP uuid> API.
Three variants are provided:

=head2 TIE-STYLE API

The TIE-style API is a functionality-reduced wrapper around the OO-style API and intended for very high-level convenience programming:

=over 4

=item C<use OSSP::uuid;>

=item B<tie>C< my $uuid, 'OSSP::uuid::tie', $mode, ...;>

=item C<$uuid = [ $mode, ... ];>

=item C<print "UUID=$uuid\n";>

=item C<untie $uuid;>

=back

=head2 OO-STYLE API

The OO-style API is a wrapper around the C-style API and intended for high-level regular programming.

=over 4

=item C<use OSSP::uuid;>

=item C<my $uuid = B<new>C< OSSP::uuid;>

=item C<$uuid-B<load>C<($name);>

=item C<$uuid-B<make>C<($mode, ...);>

=item C<$result = $uuid-B<isnil>C<();>

=item C<$result = $uuid-B<compare>C<($uuid2);>

=item C<$uuid-B<import>C<($fmt, $data_ptr);>

=item C<$data_ptr = $uuid-B<export>C<($fmt);>

=item C<[(\$str[, \$rc)] = $uuid-B<error>C<();>

=item C<$ver = $uuid-B<version>C<();>
Additionally, the strings C"v1", C"v3", C"v4", C"v5" and C"mc" can be used in C<$mode> and the strings C"bin", C"str", and C"txt" can be used for C<$fmt>.

=head2 C-STYLE API

The C-style API is a direct mapping of the B<OSSP uuid> ISO-C API to Perl and is intended for low-level programming. See uuid(3) for a description of the functions and their expected arguments.

=item C<use OSSP::uuid qw(:all)>;

=item C<my $uuid; $rc = >B<uuid_create>C<($uuid)>;

=item C<$rc = >B<uuid_load>C<($uuid, $name)>;

=item C<$rc = >B<uuid_make>C<($uuid, $mode, ...)>;  

=item C<$rc = >B<uuid_isnil>C<($uuid, $result)>;

=item C<$rc = >B<uuid_compare>C<($uuid, $uuid2, $result)>;

=item C<$rc = >B<uuid_import>C<($uuid, $fmt, $data_ptr, $data_len)>;

=item C<$rc = >B<uuid_export>C<($uuid, $fmt, $data_ptr, $data_len)>;

=item C<$str = >B<uuid_error>C<($rc)>;

=item C<$ver = >B<uuid_version>C<()>;  

=item C<$rc = >B<uuid_destroy>C<($uuid)>;

=back

Additionally, the following constants are exported for use in C<$rc>, C<$mode>, C<$fmt> and C<$ver>:

C<UUID_VERSION>,
C<UUID_LEN_BIN>,
C<UUID_LEN_STR>,
C<UUID_RC_OK>,
C<UUID_RC_ARG>,
The following two examples create the version 3 UUID C<02d9e6d5-9467-382e-8f9b-9300a64ac3cd>, both via the OO-style and the C-style API. Error handling is omitted here for easier reading, but has to be added for production-quality code.

```perl
# TIE-style API (very high-level)
use OSSP::uuid;
tie my $uuid, 'OSSP::uuid::tie';
$uuid = [ "v1" ];
print "UUIDs: $uuid, $uuid, $uuid
$uuid = [ "v3", "ns:URL", "http://www.ossp.org/" ];
print "UUIDs: $uuid, $uuid, $uuid
untie $uuid;

# OO-style API (high-level)
use OSSP::uuid;
my $uuid    = new OSSP::uuid;
my $uuid_ns = new OSSP::uuid;
$uuid_ns->load("ns:URL");
$uuid->make("v3", $uuid_ns, "http://www.ossp.org/");
undef $uuid_ns;
my $str = $uuid->export("str");
undef $uuid;
print "$str

# C-style API (low-level)
use OSSP::uuid qw(:all);
my $uuid; uuid_create($uuid);
my $uuid_ns; uuid_create($uuid_ns);
uuid_load($uuid_ns, "ns:URL");
uuid_make($uuid, UUID_MAKE_V3, $uuid_ns, "http://www.ossp.org/");
uuid_destroy($uuid_ns);
```
my $str; uuid.export($uuid, UUID_FMT_STR, $str, undef);
uuid.destroy($uuid);
print "$str\n";

=head1 SEE ALSO

uuid(1), uuid-config(1), uuid(3).

=head1 HISTORY

The Perl binding B<OSSP::uuid> to B<OSSP uuid> was implemented in November 2004 by Ralf S. Engelschall E<lt>rse@engelschall.comE<gt>.

=cut

Found in path(s):
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**
** uuid++.cc: library C++ API implementation
*/

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--
-- uuid.sql: PostgreSQL Binding (SQL part)
--
--
-- prolog
--

SET search_path TO public;
SET client_min_messages TO warning;
DROP FUNCTION uuid_in(CSTRING)  CASCADE;
DROP FUNCTION uuid_out(uuid)  CASCADE;
DROP FUNCTION uuid_recv(INTERNAL)  CASCADE;
DROP FUNCTION uuid_send(uuid)  CASCADE;
DROP TYPE     uuid  CASCADE;
DROP CAST     (CSTRING AS uuid)  CASCADE;
DROP CAST     (uuid AS CSTRING)  CASCADE;
DROP FUNCTION uuid(CSTRING)  CASCADE;
DROP FUNCTION uuid(INTEGER)  CASCADE;
DROP FUNCTION uuid(INTEGER, CSTRING, CSTRING)  CASCADE;
DROP FUNCTION uuid_eq(uuid)  CASCADE;
DROP FUNCTION uuid_ne(uuid)  CASCADE;
DROP FUNCTION uuid_lt(uuid, uuid)  CASCADE;
DROP FUNCTION uuid_gt(uuid, uuid)  CASCADE;
DROP FUNCTION uuid_le(uuid, uuid)  CASCADE;
DROP FUNCTION uuid_ge(uuid, uuid)  CASCADE;
DROP FUNCTION uuid_hash(uuid)  CASCADE;
DROP FUNCTION uuid_cmp(uuid, uuid)  CASCADE;
DROP OPERATOR CLASS uuid_ops USING hash  CASCADE;
DROP OPERATOR CLASS uuid_ops USING btree  CASCADE;

BEGIN;

--
-- the UUID data type
--

CREATE FUNCTION
  uuid_in(CSTRING) RETURNS uuid
STRICT
  LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_in';

CREATE FUNCTION
  uuid_out(uuid) RETURNS CSTRING
STRICT
  LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_out';
CREATE FUNCTION
uuid_recv(INTERNAL) RETURNS uuid
STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_recv';

CREATE FUNCTION
uuid_send(uuid) RETURNS BYTEA
STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_send';

CREATE TYPE uuid (
    INPUT   = uuid_in,   -- for SQL input
    OUTPUT  = uuid_out,  -- for SQL output
    RECEIVE = uuid_recv, -- for DB input
    SEND    = uuid_send, -- for DB output
    DEFAULT = 'uuid(1)',
    INTERNALLENGTH = 16,
    ALIGNMENT = char
);

COMMENT ON TYPE uuid
    IS 'UUID type';

-- CREATE CAST (CSTRING AS uuid)
--     WITH FUNCTION uuid_in(CSTRING) AS ASSIGNMENT;
--
-- CREATE CAST (uuid AS CSTRING)
--     WITH FUNCTION uuid_out(uuid) AS ASSIGNMENT;
--
-- the UUID constructor function
--
CREATE FUNCTION
uuid(CSTRING) RETURNS uuid
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_in';

CREATE FUNCTION
uuid(INTEGER) RETURNS uuid
VOLATILE CALLED ON NULL INPUT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_make';

CREATE FUNCTION
uuid(INTEGER, CSTRING, CSTRING) RETURNS uuid
VOLATILE CALLED ON NULL INPUT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_make';
-- the UUID operators
--

CREATE FUNCTION
    uuid_eq(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_eq';

CREATE FUNCTION
    uuid_ne(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_ne';

CREATE FUNCTION
    uuid_lt(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_lt';

CREATE FUNCTION
    uuid_gt(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_gt';

CREATE FUNCTION
    uuid_le(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_le';

CREATE FUNCTION
    uuid_ge(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_ge';

CREATE OPERATOR = (
    leftarg  = uuid,
    rightarg = uuid,
    negator  = <>,
    procedure = uuid_eq
);

CREATE OPERATOR <> (
    leftarg  = uuid,
    rightarg = uuid,
    negator  = =,
    procedure = uuid_ne
);

CREATE OPERATOR < (
CREATE OPERATOR > (  
  leftarg = uuid,
  rightarg = uuid,
  commutator = <,
  negator = <=,
  procedure = uuid_gt
 );

CREATE OPERATOR <= (  
  leftarg = uuid,
  rightarg = uuid,
  commutator = >=,
  negator = >,
  procedure = uuid_le
 );

CREATE OPERATOR >= (  
  leftarg = uuid,
  rightarg = uuid,
  commutator = <=,
  negator = <,
  procedure = uuid_ge
 );

--
-- the UUID support for indexing
--

CREATE FUNCTION uuid_hash(uuid) RETURNS INTEGER IMMUTABLE STRICT LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_hash';

CREATE FUNCTION uuid_cmp(uuid, uuid) RETURNS INTEGER IMMUTABLE STRICT LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_cmp';

CREATE OPERATOR CLASS uuid_ops DEFAULT FOR TYPE uuid USING hash AS OPERATOR 1 =, -- 1: equal
FUNCTION 1 uuid_hash(uuid);

CREATE OPERATOR CLASS uuid_ops
DEFAULT FOR TYPE uuid USING btree AS
OPERATOR 1 <, -- 1: less than
OPERATOR 2 <=, -- 2: less than or equal
OPERATOR 3 =, -- 3: equal
OPERATOR 4 >=, -- 4: greater than or equal
OPERATOR 5 >, -- 5: greater than
FUNCTION 1 uuid_cmp(uuid, uuid);

--
-- epilog
--

COMMIT;

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 ** uuid_mac.h: Media Access Control (MAC) resolver API definition
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 ** uuid_cli.c: command line tool
 */

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**
** uuid_dce.c: DCE 1.1 compatibility API implementation
*/

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config.m4: PHP/Zend API build-time configuration (language: m4)

PHP_ARG_ENABLE(uuid, OSSP uuid module,
[  --enable-uuid             Enable OSSP uuid extension module.])

if test "$PHP_UUID" != "no"; then
    PHP_NEW_EXTENSION(uuid, uuid.c, $ext_shared)
    AC_DEFINE(HAVE_UUID, 1, [Have OSSP uuid library])
    PHP_ADD_LIBPATH([..], )
    PHP_ADD_LIBRARY([uuid],, UUID_SHARED_LIBADD)
    PHP_ADD_INCLUDE([..])
    PHP_SUBST(UUID_SHARED_LIBADD)
fi

avoid linking conflict with a potentially existing uuid_create(3) in libe
AC_CHECK_FUNC(uuid_create,]
    SAVE_LDFLAGS="$LDFLAGS"
    LDFLAGS="$LDFLAGS -Wl,-Bsymblic"
    AC_TRY_LINK([[], [EXTRA_LDFLAGS="$EXTRA_LDFLAGS -Wl,-Bsymblic"])
    LDFLAGS="$SAVE_LDFLAGS")

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** uuid_ac.c: auto-configuration
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** uuid_bm.c: bitmask API implementation
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 ** uuid++.hh: library C++ API definition
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** uuid_mac.c: Media Access Control (MAC) resolver implementation
*/

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* /opt/cola/permits/1129089660_1612173937.92/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/uuid_mac.c
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OSSP uuid - Universally Unique Identifier
Version 1.6.2 (04-Jul-2008)

ABSTRACT

OSSP uuid is an ISO-C:1999 application programming interface (API)
and corresponding command line interface (CLI) for the generation of
DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 compliant Universally
Unique Identifier (UUID). It supports DCE 1.1 variant UUIDs of version
1 (time and node based), version 3 (name based, MD5), version 4
(random number based) and version 5 (name based, SHA-1). Additional
API bindings are provided for the languages ISO-C++:1998, Perl:5 and
PHP:4/5. Optional backward compatibility exists for the ISO-C DCE-1.1
and Perl Data::UUID APIs.

UUIDs are 128 bit numbers which are intended to have a high likelihood
of uniqueness over space and time and are computationally difficult
to guess. They are globally unique identifiers which can be locally
generated without contacting a global registration authority. UUIDs
are intended as unique identifiers for both mass tagging objects
with an extremely short lifetime and to reliably identifying very
persistent objects across a network.
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HOME AND DOCUMENTATION

The documentation and latest release can be found on

 o http://www.ossp.org/pkg/lib/uuid/
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**
** ui64.c: implementation of 64-bit unsigned integer arithmetic
*/

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=pod

=head1 NAME

Data::UUID - B<OSSP uuid> Backward Compatibility Perl Binding

=head1 DESCRIPTION

B<Data::UUID> is the B<OSSP uuid> backward compatibility Perl binding to the API of the original B<Data::UUID> module. It allows other B<Data::UUID> based Perl modules to run with B<OSSP::uuid> without changes.

=head1 SEE ALSO

B<OSSP::uuid>.

=head1 HISTORY

The backward compatibility Perl binding B<Data::UUID> for B<OSSP uuid> was originally implemented in 2004 by Piotr Roszatycki E<dexter@debian.orgE> It was later cleaned up and speed optimized in December 2005 by David Wheeler E<david@justatheory.comE>.

=cut

Found in path(s):
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1.508 authbind 2.1.1+nmu1

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This package was put together by me, Ian Jackson <ijackson@chiark.greenend.org.uk>, from my git repository.

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Name: ply
Version: 3.7
Summary: Python Lex & Yacc
Home-page: http://www.dabeaz.com/ply/
Author: David Beazley
Author-email: dave@dabeaz.com
License: BSD
Description:

PLY is yet another implementation of lex and yacc for Python. Some notable features include the fact that it implemented entirely in Python and it uses LALR(1) parsing which is efficient and well suited for larger grammars.

PLY provides most of the standard lex/yacc features including support for empty productions, precedence rules, error recovery, and support for ambiguous grammars.

PLY is extremely easy to use and provides very extensive error checking. It is compatible with both Python 2 and Python 3.

Platform: UNKNOWN
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 2

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PLY (Python Lex-Yacc) Version 3.7

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Introduction
============

PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc. If you know how to use these tools in C, you will find PLY to be similar.

- PLY provides *very* extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.

- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers.
This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.

- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

How to Use
==========

PLY consists of two files: lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

```python
import ply.lex as lex
import ply.yacc as yacc
```

Alternatively, you can copy just the files lex.py and yacc.py individually and use them as modules. For example:

```python
import lex
import yacc
```

The file setup.py can be used to install ply using distutils.

The file doc/ply.html contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

Requirements
=============

PLY requires the use of Python 2.6 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

Resources
==========
More information about PLY can be obtained on the PLY webpage at:

http://www.dabeaz.com/ply

For a detailed overview of parsing theory, consult the excellent book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

The GitHub page for PLY can be found at:

https://github.com/dabeaz/ply

An old and relatively inactive discussion group for PLY is found at:

http://groups.google.com/group/ply-hack

Acknowledgments
===============
A special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x. Andrew Waters and Markus Schoepflin were instrumental in reporting bugs and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0
========================
PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.6 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3--it is not necessary and may in fact break the implementation.

Example
======

Here is a simple example showing a PLY implementation of a calculator with variables.

```python
# calc.py
#
# A simple calculator with variables.
#`
tokens = (  
    'NAME','NUMBER',  
    'PLUS','MINUS','TIMES','DIVIDE','EQUALS',  
    'LPAREN','RPAREN',  
)

# Tokens  

t_PLUS    = r'\+'  
t_MINUS   = r'-'  
t_TIMES   = r'\*'  
t_DIVIDE  = r'/'  
t_EQUALS  = r'='  
t_LPAREN  = r'('  
t_RPAREN  = r')'  
t_NAME    = r'[a-zA-Z_][a-zA-Z0-9_]*'

def t_NUMBER(t):  
    r'\d+'  
    t.value = int(t.value)  
    return t

# Ignored characters  
t_ignore = " 	"

def t_newline(t):  
    r'\n+'  
    t.lexer.lineno += t.value.count("\n")

def t_error(t):  
    print("Illegal character '%s'" % t.value[0])  
    t.lexer.skip(1)

# Build the lexer  
import ply.lex as lex  
lex.lex()  

# Precedence rules for the arithmetic operators  
precedence = (  
    ('left','PLUS','MINUS'),  
    ('left','TIMES','DIVIDE'),  
    ('right','UMINUS'),  
)

# dictionary of names (for storing variables)  
names = { }  

def p_statement_assign(p):
'statement : NAME EQUALS expression'
names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    '''expression : expression PLUS expression
                  | expression MINUS expression
                  | expression TIMES expression
                  | expression DIVIDE expression'''

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN expression RPAREN'
    p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name \"%s\" \% p[1])
        p[0] = 0

def p_error(p):
    print("Syntax error at \"%s\" \% p.value")

import ply.yacc as yacc
yacc.yacc()

while True:
    try:
        s = raw_input("calc > ")  # use input() on Python 3
    except EOFError:
        break
Bug Reports and Patches
=======================
My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page at https://github.com/dabeaz/ply to submit issues and pull requests. To contact me about bugs and/or new features, please send email to dave@dabeaz.com.

-- Dave

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.517 jetty-util 9.4.24.v20191120

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
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* javax.websocket:javax.websocket-api
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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
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org.eclipse.jetty.toolchain:jetty-schemas

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1.519 pyyaml 3.11-3build1

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# This file contains a list of people who've made non-trivial
# contribution to the Google C++ Mocking Framework project. People
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# here. Please keep the list sorted by first names.

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     jar/net/minidev/asm/BeansAccess.java
   * /opt/cola/permits/1177937262_1625568439.63/0/accessors-smart-1-2-sources-5-
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   * /opt/cola/permits/1177937262_1625568439.63/0/accessors-smart-1-2-sources-5-
     jar/net/minidev/asm/Accessor.java
   * /opt/cola/permits/1177937262_1625568439.63/0/accessors-smart-1-2-sources-5-
     jar/net/minidev/asm/ASMUtil.java
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge’ Weijers, and other members of the Independent JPEG Group.

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DOCUMENTATION ROADMAP

This file contains the following sections:
OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW =========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.
This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpegcom" and "wrjpegcom", 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, ltcfg, 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

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.

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 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 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

The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.

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RELATED SOFTWARE

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to
obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/. Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
================

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist.
We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
=====

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

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The End

1.532 snake-yaml 1.23

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Found in path(s):
* /opt/cola/permits/1000770200_1646171503.5/0/snakeyaml-1-23-jar/META-INF/maven/org.yaml/snakeyaml/pom.xml

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

Manifest-Version: 1.0
Bnd-LastModified: 1535387016033
Build-Jdk: 1.8.0_181
Built-By: somov
Bundle-Description: YAML 1.1 parser and emitter for Java
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: SnakeYAML
Bundle-SymbolicName: org.yaml.snakeyaml
Bundle-Version: 1.23.0
Created-By: Apache Maven Bundle Plugin
Export-Package: org.yaml.snakeyaml;version="1.23",org.yaml.snakeyaml.constructor;version="1.23"
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org.yaml.snakeyaml.emitter;version="1.23",org.yaml.snakeyaml.error;version="1.23",org.yaml.snakeyaml.events;version="1.23",org.yaml.snakeyaml.extensions.compactnotation;version="1.23",org.yaml.snakeyaml.introspector;version="1.23",org.yaml.snakeyaml.nodes;version="1.23",org.yaml.snakeyaml.parser;version="1.23",org.yaml.snakeyaml.reader;version="1.23",org.yaml.snakeyaml.resolver;version="1.23",org.yaml.snakeyaml.scanner;version="1.23",org.yaml.snakeyaml.serializer;version="1.23",org.yaml.snakeyaml.tokens;version="1.23",org.yaml.snakeyaml.util;version="1.23"

Import-Package: org.yaml.snakeyaml;version="[1.23,2)",org.yaml.snakeyaml.composer;version="[1.23,2)",org.yaml.snakeyaml.emitter;version="[1.23,2)",org.yaml.snakeyaml.error;version="[1.23,2)",org.yaml.snakeyaml.events;version="[1.23,2)",org.yaml.snakeyaml.introspector;version="[1.23,2)",org.yaml.snakeyaml.nodes;version="[1.23,2)",org.yaml.snakeyaml.parser;version="[1.23,2)",org.yaml.snakeyaml.reader;version="1.23",org.yaml.snakeyaml.resolver;version="[1.23,2)",org.yaml.snakeyaml.scanner;version="[1.23,2)",org.yaml.snakeyaml.serializer;version="[1.23,2)",org.yaml.snakeyaml.tokens;version="[1.23,2)"

Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"

Tool: Bnd-3.5.0.201709291849

Found in path(s):
* /opt/cola/permits/1000770200_1646171503.5/0/snakeyaml-1-23-jar/META-INF/MANIFEST.MF

1.533 jersey-common 2.23

1.533.1 Available under license :
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1.534 kerberos 1.13

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- cmd/krb5/iprop/iprop_hdr.h
- cmd/krb5/kadmin/server/ipropd_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/mach/gssapiP_spnego.h
- lib/gss_mechs/mech_spnego/mach/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_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密封.c
- lib/libgss/g_sign.c
- lib/libgss/g_store_cred.c
- 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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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>MIT Kerberos License information — MIT Kerberos Documentation</title>
<link rel="stylesheet" href="_static/agogo.css" type="text/css" />
<link rel="stylesheet" href="_static/pygments.css" type="text/css" />
<link rel="stylesheet" href="_static/kerb.css" type="text/css" />
<script type="text/javascript">
var DOCUMENTATION_OPTIONS = {
    URL_ROOT: './',
    VERSION: '1.17',
    COLLAPSE_INDEX: false,
    FILE_SUFFIX: '.html',
    HAS_SOURCE: true,
    SOURCELINK_SUFFIX: '.txt'
}
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```c
lib/gssapi/gssapi_err_generic
```
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```plaintext
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c
```

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.. parsed-literal::

    lib/gssapi/generic/gssapi_err_generic.et
    lib/gssapi/mechglue/g_accept_sec_context.c
    lib/gssapi/mechglue/g_acquire_cred.c
    lib/gssapi/mechglue/g_canon_name.c
    lib/gssapi/mechglue/g_compare_name.c
    lib/gssapi/mechglue/g_context_time.c
    lib/gssapi/mechglue/g_delete_sec_context.c
    lib/gssapi/mechglue/g_dsp_name.c
    lib/gssapi/mechglue/g_dsp_status.c
    lib/gssapi/mechglue/g_dup_name.c
    lib/gssapi/mechglue/g_exp_sec_context.c
    lib/gssapi/mechglue/g_export_name.c
    lib/gssapi/mechglue/g_glue.c
    lib/gssapi/mechglue/g_imp_name.c
    lib/gssapi/mechglue/g_imp_sec_context.c
and the initial implementation of incremental propagation, including
the following new or changed files:

.. parsed-literal::

    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/iprop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
    lib/kdb/kdb_log.h
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_crd.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_crd.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/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
text_seen = False
is_license = False
for line in comment:
    if not is_license and indicates_license(line):
        is_license = True
    if text_seen:
        warn(fname, ln, 'License begins after first line of comment')
    elif code_seen:
        warn(fname, ln, 'License after code')
    elif nonlicense_seen:
        warn(fname, ln, 'License after non-license comments')
    break
# DB2 licenses start with '/*-.' and we don't want to change them.
    if line != '' and line != '-':
        text_seen = True
return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'/\* ([^ \*]*)( - .*)? */', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'\*\*\*.*?\*\*', '', line)
        line = line.strip()
        if not in_comment and '/*-.' in line:
            (line, sep, comment_part) = line.partition('/*-.
        comment = [comment_part.strip()]
        comment_starts_at = ln
        in_comment = True
    elif in_comment and not in_comment and '/**' not in line:
        comment.append(line.lstrip('**').lstrip())
    elif in_comment and '/**' not in line:
        comment.append(line.lstrip('**').lstrip())
    elif in_comment
(comment_part, sep, line) = line.partition("*/")
comment.append(comment_part.strip())
is_license = check_comment(comment, fname, comment_starts_at, code_seen, nonlicense_seen)
nonlicense_seen = nonlicense_seen or not is_license
in_comment = False
elif line.strip() != "":
    code_seen = True

In += 1

for fname in sys.argv[1:]:
    if fname.startswith('/'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

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.. include:: notice.rst

/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */ /*

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1.535 libdatrie 0.2.10 2
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* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/internal/platform/JdkWithJettyBootPlatform.java
* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/internal/ws/RealWebSocket.java
1.537 nettle 3.2-1ubuntu0.16.04.2

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1.544 jackson-databind 2.9.8

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1.549 python-functools32 3.2.3.2-2

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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

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library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

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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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Version 2, June 1991

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for the initial saa7146 driver and its recent overhaul

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for his work on the initial Linux DVB driver

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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.)

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for the nxt2004 frontend driver

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for merging the nxt2002 and nxt2004 modules into a
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1.558 node.js 14.15.1

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1.560 powermock-api-mockito2 1.7.4

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1.561 file 5.25-2ubuntu1

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1.563 bcrypt 3.1.7

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1.564 jackson-jaxrs-base 2.9.8

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1.565 openssh 7.2p2 4ubuntu2.8

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- The make-ssh-known-hosts script is no longer included
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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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#endif
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#endif
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*
*/

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#ifndef HAVE_WAITPID
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#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w)(*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w)!((_W_INT(w)) & 0377)
#define WIFSTOPPED(w)!WIFEXITED(w) & 0100
#define WIFSIGNALED(w)!WEXITED(w) & !WIFSTOPPED(w)
#define WEXITSTATUS(w)((WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w)((WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w)((WIFSIGNALED(w) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
1.566 pycairo 1.8.8-2
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1.568 swagger-core 1.5.9

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1.569 binutils 2.26.1

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

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

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

define void @autogen_SD4739(i8*) {
   ; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
   BB:
   %L34 = load i8, i8* %0
   %Cmp56 = icmp sgt i8 undef, %L34
   br label %CF246
   CF246:                                            ; preds = %CF246, %BB
   %S1163 = select i1 %Cmp56, i8 %L34, i8 undef
   br i1 undef, label %CF246, label %CF248
   CF248:                                            ; preds = %CF248, %CF246
   store i8 %S1163, i8* %0
   br label %CF248
}

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NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py

RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX

RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,SKX256

RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512

define void @zext256() "min-legal-vector-width"="256" {
  ; VEC256-LABEL: 'zext256'
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
  ;
  ; VEC512-LABEL: 'zext256'
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
  
  %A = zext <8 x i16> undef to <8 x i64>
  %B = zext <8 x i32> undef to <8 x i64>
  %C = zext <16 x i8> undef to <16 x i32>
  %D = zext <16 x i16> undef to <16 x i32>
}
define void @zext512() "min-legal-vector-width"="512" {
  ; AVX-LABEL: 'zext512'
  ; AVX-NEXT:  Cost Model: Found an estimated cost of 7 for instruction: %A = zext < 8 x i16> undef to < 8 x i64>
  ; AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %B = zext < 8 x i32> undef to < 8 x i64>
  ; AVX-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %C = zext < 16 x i8> undef to < 16 x i32>
  ; AVX-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %D = zext < 16 x i16> undef to < 16 x i32>
  ; AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %E = zext < 32 x i8> undef to < 32 x i16>
  ; AVX-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
  ;
  ; SKX256-LABEL: 'zext512'
  ; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = zext < 8 x i16> undef to < 8 x i64>
  ; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = zext < 8 x i32> undef to < 8 x i64>
  ; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = zext < 16 x i8> undef to < 16 x i32>
  ; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = zext < 16 x i16> undef to < 16 x i32>
  ; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = zext < 32 x i8> undef to < 32 x i16>
  ; SKX256-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
  ;
  ; VEC512-LABEL: 'zext512'
  ; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = zext < 8 x i16> undef to < 8 x i64>
  ; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = zext < 8 x i32> undef to < 8 x i64>
  ; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = zext < 16 x i8> undef to < 16 x i32>
  ; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = zext < 16 x i16> undef to < 16 x i32>
  ; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = zext < 32 x i8> undef to < 32 x i16>
  ; VEC512-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
  ;
  ;
  ;
  %E = zext <32 x i8> undef to <32 x i16>
  ret void
}
define void @sext256() "min-legal-vector-width"="256" {
  ; VEC256-LABEL: 'sext256'
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

  ; VEC512-LABEL: 'sext256'
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}

define void @sext512() "min-legal-vector-width"="512" {
  ; AVX-LABEL: 'sext512'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

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

target triple = "hexagon"

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

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

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

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

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

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

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

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

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

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

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }

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

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
  ; CHECK-LABEL: test_sitofp_fixed:
                      ; preds = %entry
  ; First, extend each i32 to i64
  ; CHECK-DAG: sshll2.2d [ [BLOCK0_HI:v[0-9]+] ], v0, #0
  ; CHECK-DAG: sshll2.2d [ [BLOCK1_HI:v[0-9]+] ], v1, #0
  ; CHECK-DAG: sshll2.2d [ [BLOCK2_HI:v[0-9]+] ], v2, #0

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

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

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

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

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

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

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

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

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

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

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

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = [ "min-legal-vector-width"="512" ]
; RUN: opt -consthoist -S -o - %s | FileCheck %s
target triple = "thumbv6m-none--musleabi"

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

@goo = global i8* undef

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

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

define void @foo_i32() {
entry:
%0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
%1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
%2 = load volatile i32, i32* inttoptr (i32 805874720 to i32*), align 4
%3 = load volatile i32, i32* inttoptr (i32 805874750 to i32*), align 4
%4 = load volatile i32, i32* inttoptr (i32 805874752 to i32*), align 4
%5 = load volatile i32, i32* inttoptr (i32 805874774 to i32*), align 4
ret void
}
%1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
%2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
%3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
%4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
%5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
ret void
}

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

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

```c
define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: add512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
    ; CHECK-NEXT:    vpaddd 32(%rsi), %zmm1
    ; CHECK-NEXT:    vpaddd (%rsi), %zmm0, %zmm0
    ; CHECK-NEXT:    vmovdqa64 %zmm0, (%rdx)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %d = load <16 x i32>, <16 x i32>* %a
    %e = load <16 x i32>, <16 x i32>* %b
    %f = add <16 x i32> %d, %e
    store <16 x i32> %f, <16 x i32>* %c
    ret void
}
```

```c
define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: avg_v64i8_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa64 (%rsi), %zmm0
    ; CHECK-NEXT:    vpaddd 32(%rsi), %zmm1
    ; CHECK-NEXT:    vpaddd (%rsi), %zmm0, %zmm0
    ; CHECK-NEXT:    vmovdqa64 %zmm0, (%rdx)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %d = load <64 x i8>, <64 x i8>* %a
    %e = load <64 x i8>, <64 x i8>* %b
    %f = add <64 x i8> %d, %e
    store <64 x i8> %f, <64 x i8>* %c
    ret void
}
```
store <64 x i8> %8, <64 x i8>* undef, align 4
ret void
}

define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="256" {
; CHECK-LABEL: pmaddwd_32_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmaddwd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vpmaddwd (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

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

%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %y.ptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
; CHECK-LABEL: psubus_64i8_max_256:
; CHECK:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpsubusb 32(%rsi), %ymm1, %ymm0
; CHECK-NEXT: vpsubusb (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vzerouupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %y.ptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

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

define i32 @_Z9test_charPcSi_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
; CHECK-LABEL: _Z9test_charPcSi_256:
; CHECK:
; %bb.0:
; %entry
; CHECK-NEXT:  movl %edx, %eax
; CHECK-NEXT:  vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:  xorl %ecx, %ecx
; CHECK-NEXT:  vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT:  vpxor %xmm2, %xmm2, %xmm2
; CHECK-NEXT:  .p2align 4, 0x90
; CHECK-NEXT:  .LBB8_1: # %vector.body
; CHECK-NEXT:  # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:  vpmovsxbw (%rdi,%rcx), %ymm3
; CHECK-NEXT:  vpmovsxbw 16(%rdi,%rcx), %ymm4
; CHECK-NEXT:  vpmovsxbw (%rsi,%rcx), %ymm5
; CHECK-NEXT:  vpmaddwd %ymm3, %ymm5, %ymm3
; CHECK-NEXT:  vpmaddwd %ymm1, %ymm3, %ymm1
; CHECK-NEXT:  vpmaddwd %ymm1, %ymm3, %ymm1
; CHECK-NEXT:  addq $32, %rcx
; CHECK-NEXT:  cmpq %rcx, %rax
; CHECK-NEXT:  jne .LBB8_1
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:  vpaddd %ymm0, %ymm1, %ymm1
; CHECK-NEXT:  vpaddd %ymm0, %ymm2, %ymm0
; CHECK-NEXT:  vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vmovd %xmm0, %eax
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq

entry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
; CHECK-NEXT: vpmaddwd %zmm2, %zmm3, %zmm2
; CHECK-NEXT: vpaddd %zmm1, %zmm2, %zmm1
; CHECK-NEXT: addq $32, %rcx
; CHECK-NEXT: cmpq %rcx, %rax
; CHECK-NEXT: jne .LBB9_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vpaddd %zmm0, %zmm1, %zmm0
; CHECK-NEXT: vextracti64x4 %1, %zmm0, %ymm1
; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vextracti128 %1, %ymm0, %xmm1
; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpshufd {%. +} %xmm1 = %xmm0[2,3,0,1]
; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vextracti128 %1, %ymm0, %xmm1
; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vmovd %xmm0, %eax
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
entry:
  %3 = zext i32 %2 to i64
br label %vector.body

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

middle.block:
  %rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 unde
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

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

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

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entry:
br label %vector.body

type.body:

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

middle.block:

%ldc1 = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %ldc1, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12,
   i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
   i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 unde
%bin.rdx = add <16 x i32> %ldc1, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32
   undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 unde
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32
   undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 unde
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32
   undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 unde
%bin.rdx4 = add <16 x i32> %bin.rdx, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12

define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
   ; CHECK-LABEL: sad_16i8_512:

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; CHECK:       # %bb.0: # %entry
; CHECK-NEXT:  vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:  movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT:  .p2align 4, 0x90
; CHECK-NEXT:  .LBB11_1: # %vector.body
; CHECK-NEXT:  # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:  vmovdqu a+1024(%rax), %xmm1
; CHECK-NEXT:  vpsadbw b+1024(%rax), %xmm1, %xmm1
; CHECK-NEXT:  vpaddd %zmm0, %zmm1, %zmm0
; CHECK-NEXT:  addq $4, %rax
; CHECK-NEXT:  jne .LBB11_1
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vmovd %xmm0, %eax
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
; entry:
; br label %vector.body

vector.body:

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

middle.block:
%.lcssa = phi <16 x i32> [ %10, %vector.body ]
%.rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%.bin.rdx = add <16 x i32> %.lcssa, %.rdx.shuf
%.rdx.shuf2 = shufflevector <16 x i32> <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%.bin.rdx2 = add <16 x i32> %bin.rdx, %.rdx.shuf2
%.rdx.shuf3 = shufflevector <16 x i32> <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%.bin.rdx3 = add <16 x i32> %bin.rdx2, %.rdx.shuf3
%.rdx.shuf4 = shufflevector <16 x i32> <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%.bin.rdx4 = add <16 x i32> %bin.rdx3, %.rdx.shuf4
%12 = extractelement <16 x i32> %.bin.rdx4, i32 0
ret i32 %12
}
define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sbto16f32_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:  kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:  vpmovm2d %k0, %ymm0
    ; CHECK-NEXT:  vcvtdq2ps %ymm0, %ymm0
    ; CHECK-NEXT:  vpmovm2d %k0, %ymm1
    ; CHECK-NEXT:  vcvtdq2ps %ymm1, %ymm1
    ; CHECK-NEXT:  vmovaps %ymm1, (%rdi)
    ; CHECK-NEXT:  vmovaps %ymm0, 32(%rdi)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  ret
    %mask = icmp slt <16 x i16> %a, zeroinitialize
    %1 = sitofp <16 x i16> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}
define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: sbto16f32_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:  vpmovm2d %k0, %zmm0
    ; CHECK-NEXT:  vcvtdq2ps %zmm0, %zmm0
    ; CHECK-NEXT:  vmovaps %zmm0, (%rdi)
    ; CHECK-NEXT:  vmovaps %zmm0, 32(%rdi)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  ret
}
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

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

define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res)  "min-legal-vector-width"="512" {
    ; CHECK-LABEL: sbto16f64_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:   vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:   kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:   vpmovm2d %k1, %zmm0
    ; CHECK-NEXT:   vcvtdq2pd %ymm0, %zmm1
    ; CHECK-NEXT:   vextracti64x4 $1, %zmm0, %ymm0
    ; CHECK-NEXT:   vcvtdq2pd %ymm0, %zmm0
    ; CHECK-NEXT:   vmovaps %zmm0, 64(%rdi)
    ; CHECK-NEXT:   vmovaps %zmm1, (%rdi)
    ; CHECK-NEXT:   vzeroupper
    ; CHECK-NEXT:   retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}
define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f32_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  kshiftrw $8, %k0, %k1
; CHECK-NEXT:  vpmovm2d %k1, %ymm0
; CHECK-NEXT:  vpsrlq $31, %ymm0, %ymm0
; CHECK-NEXT:  vcvtq2ps %ymm0, %ymm0
; CHECK-NEXT:  vpmovm2d %k0, %ymm1
; CHECK-NEXT:  vpsrlq $31, %ymm1, %ymm1
; CHECK-NEXT:  vcvtq2ps %ymm1, %ymm1
; CHECK-NEXT:  vmovaps %ymm1, (%rdi)
; CHECK-NEXT:  vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitialize
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f32_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vpmovw2m %zmm0, %k0
; CHECK-NEXT:  vpmovm2d %k0, %zmm0
; CHECK-NEXT:  vpsrlq $31, %zmm0, %zmm0
; CHECK-NEXT:  vcvtq2ps %zmm0, %zmm0
; CHECK-NEXT:  vmovaps %zmm0, (%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitialize
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f64_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  kshiftrw $8, %k0, %k1
; CHECK-NEXT:  vpmovm2d %k1, %ymm0
; CHECK-NEXT:  vpsrlq $31, %ymm0, %ymm0
; CHECK-NEXT:  vcvtq2pd %xmm0, %ymm0
; CHECK-NEXT:  vcvtq2pd %xmm1, %ymm1
; CHECK-NEXT:  vextracti128 %s1, %ymm0, %xmm0
; CHECK-NEXT:  vcvtq2pd %xmm0, %ymm1
}
define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {  
  %mask = icmp slt <16 x i16> %a, zeroinitializer  
  %1 = uitofp <16 x i1> %mask to <16 x double>  
  store <16 x double> %1, <16 x double>* %res  
  ret void  
}

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %pассив) "min-legal-vector-width"="256" {  
  %mask = icmp slt <16 x i16> %a, zeroinitializer  
  %1 = uitofp <16 x i1> %mask to <16 x double>  
  store <16 x double> %1, <16 x double>* %res  
  ret void  
}
define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
; CHECK-LABEL: test_16f32toub_512:
; CHECK:    # %bb.0:
; CHECK-NEXT: vcvtps2dq (%rdi), %zmm1
; CHECK-NEXT: vpslld $31, %zmm1, %zmm1
; CHECK-NEXT: vpmovd2m %zmm1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 [%k1] {z}
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
; CHECK-LABEL: test_16f32tosb_256:
; CHECK:    # %bb.0:
; CHECK-NEXT: vcvtps2dq (%rdi), %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k0
; CHECK-NEXT: vcvtpps2dq 32(%rdi), %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k1
; CHECK-NEXT: kunpckbw %k0, %k1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 [%k1] {z}
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptosi <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
; CHECK-LABEL: test_16f32tosb_512:
; CHECK:    # %bb.0:
; CHECK-NEXT: vcvtpps2dq (%rdi), %zmm1
; CHECK-NEXT: vpmovd2m %zmm1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 [%k1] {z}
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}
define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
    # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT: vmovdqa (%rsi), %ymm2
    ; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
    ; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm4 =
    ; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm5 =
    ; CHECK-NEXT: vpunpckbw {{.*#+}} ymm3 =
    ; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm3 =
    ; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm3 =
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    ; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm3 =
    ; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm3 =
}
define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
; CHECK-LABEL: mul512:
; CHECK:      # %bb.0:
    %d = load <64 x i8>, <64 x i8>* %a
    %e = load <64 x i8>, <64 x i8>* %b
    %f = mul <64 x i8> %d, %e
    store <64 x i8> %f, <64 x i8>* %c
    ret void
}
; CHECK-NEXT: vpmullw %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vpandq %zmm3, %zmm0, %zmm0
; CHECK-NEXT: vpaccum %zmm2, %zmm0, %zmm0
; CHECK-NEXT: vmovdq %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
}

; This threw an assertion at one point.
define <4 x i32> @mload_v4i32(<4 x i32> %trigger, <4 x i32>* %addr, <4 x i32> %dst) "min-legal-vector-width"="256" {
    CHECK-LABEL: mload_v4i32:
    ; CHECK:
    ; CHECK-NEXT: vptestnmd %xmm0, %xmm0, %k1
    ; CHECK-NEXT: vpblendmd (%rdi), %xmm1, %xmm0 {%k1}
    ; CHECK-NEXT: retq
    %mask = icmp eq <4 x i32> %trigger, zeroinitializer
    %res = call <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>*, i32 4, <4 x i1>, <4 x i32> %dst)
    ret <4 x i32> %res
}

; Test that we only promote arguments when the caller/callee have compatible 
; function attributes.

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

; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64> %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64> %arg1) #0 {
    bb:
    ; %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

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

; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
  bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64> %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should not promote
; CHECK-LABEL: @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1)
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

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

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
; CHECK-LABEL: @callee_avx2_legal512_prefer256_call_avx4_legal512_prefer256(<8 x i64>* %arg, <8 x i64> %arg1.val)
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #3 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
  bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
; CHECK-LABEL: @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64> %arg1.val)
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #3 {
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

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

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

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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
; D31946
; Check that we don't end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

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

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}

define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
  %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
  ret fp128 %res
}

define fp128 @TestFneg(fp128 %a) {
  %mul = fmul fp128 %a, %a
  %res = fsub fp128 0xL00000000000000008000000000000000, %mul
  ret fp128 %res
}

; CHECK-LABEL: TestSelect:
; CHECK movaps 16(%rsp), %xmm1
; CHECK-NEXT callq __subtf3
; CHECK-NEXT testl %ebx, %ebx
; CHECK-NEXT jg .LBB0_2
; CHECK-NEXT # %bb.1:
; CHECK-NEXT movaps .LCPI0_0(%rip), %xmm0
; CHECK-NEXT .LBB0_2:
; CHECK-NEXT addq $32, %rsp
; CHECK-NEXT popq %rbx
; CHECK-NEXT retq

; CHECK-LABEL: TestFabs:
; CHECK andps .LCPI1_0(%rip), %xmm0
; CHECK-NEXT retq

; CHECK-LABEL: TestCopysign:
; CHECK andps .LCPI2_1(%rip), %xmm0
; CHECK-NEXT orps %xmm1, %xmm0
; CHECK-NEXT retq

}
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1.572 node.js 5.22.0
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1.575 jackson 2.11.0
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1.576 python-attrs 15.2.0-1

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1.577 python-pip 8.1.1 2ubuntu0.4

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base64.cpp and base64.h

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Index: tdbsa/tdb.c

===================================================================
--- tdbsa/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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Theodore T's'o
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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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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
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#
# 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.
#
This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/
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Gadi Oxman, August 1995

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1.605 bouncycastle-fips 1.0.3
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/**
 * Base constructor.
 * <p>
 * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
 * </p>
 * <p>
 * Known suffixes is a list of public domain suffixes that can't be used as wild cards for
 * example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
 * If *.com is in the known suffixes list will not be allowed to match.
 * </p>
 *<p>
 * @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1089947271_1601369618.24/0/bcpkix-fips-1-0-3-sources-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

1.606 cpp 5.3.1 1ubuntu1
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Automatically generated by Pod::Man v1.34, Pod::Parser v1.13
\*ve \" End verbatim text
\ft R
\fi
.
\V" Set up some character translations and predefined strings. \v*(-- will
\V" give an unbreakable dash, \v*(PI will give pi, \v*(L" will give a left
\V" double quote, and \v*(R" will give a right double quote. \| will give a
\V" real vertical bar. \v*(C+ will give a nicer C++. Capital omega is used to
\V" do unbreakable dashes and therefore won't be available. \v*(C' and \v*(C'
\V" expand to \" in nroff, nothing in troff, for use with C<>.
\tr \v*(-W-)(b\v*(Tr
\ds C+ C\'v\'-1v\h'-.1p\'s-2+\h'-.1p\'+\s0\v'.1v\h'-.1p'
\ie n {\v.}
 .  \ds -- \v*(-W-
 .  \ds PI pi
 .  if (\n.(H=4u)\&(1m=24u) .ds -- \v*(-W'\h'-.12u\'\v*W'\h'-.12u'\v*-\v*-\v*diablo 10 pitch
 .  if (\n.(H=4u)\&(1m=20u) .ds -- \v*(-W'\h'-.12u\'\v*W'\h'-.8u'-\v*diablo 12 pitch
 .  \ds L" \'
 .  \ds R" "
 .  \ds C' "
 .  \ds C' "
  'br} 
\el {\v.}
 .  \ds -- \v*(em\v]
 .  \ds PI \v*p
 .  \ds L" "
 .  \ds R" "
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\l" 
\V" If the F register is turned on, we'll generate index entries on stderr for
\V" titles (.TH), headers (.SH), subsections (.Sh), items (.Ip), and index
\V" entries marked with X<> in POD. Of course, you'll have to process the
\V" output yourself in some meaningful fashion.
 .if \nF {\v.
 .  \de IX
 .  \tm Index:\$1\t\n\%	"\$2"
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 .  \rr F
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\l" 
\V" For nroff, turn off justification. Always turn off hyphenation; it makes
\V" way too many mistakes in technical documents.
\hy 0
 .if n .na
\l" 
\V" Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
\V" Fear. Run. Save yourself. No user-serviceable parts.
. V' fudge factors for nroff and troff
.if n \\
  . ds #H 0
  . ds #V .8m
  . ds #F .3m
  . ds [#F1
  . ds [#] \P
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.if t \\
  . ds #H ((1-u-(\\n(.fu%2u))*1.13m)
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.if t \\
  . ds ' \k:h'-(\\n(.wu*8/10-\*(#H))\\h*''\\n:u''
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  . ds ^ \k:h'-(\\n(.wu*10/11-\*(#H))\\h*''\\n:u''
  . ds , \k:h'-(\\n(.wu*8/10)',\\h*''\\n:u''
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  \}
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  . ds ae a'h'-(w'a'u*4/10)'e
  . ds Ae A'h'-(w'A'u*4/10)'E
  . V' corrections for vroff
.if v .ds ~ \k:h'-(\\n(.wu*9/10-\*(#H))\\h*''\\n:u''
.if v .ds ^ \k:h'-(\\n(.wu*10/11-\*(#H))\\h*''\\n:u''
  . V' for low resolution devices (crt and lpr)
.if \n(H>23 .if \n(V>19 \
\}

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 * Version 2.39 (23-MAY-2011)
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Examples at: http://malsup.com/jquery/block/

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This file creates a global JSON object containing two methods: stringifying and parse.

JSON.stringify(value, replacer, space)

value any JavaScript value, usually an object or array.

replacer an optional parameter that determines how object values are stringified for objects. It can be a function or an array of strings.

space an optional parameter that specifies the indentation of nested structures. If it is omitted, the text will be packed without extra whitespace. If it is a number, it will specify the number of spaces to indent at each
level. If it is a string (such as "\t" or '&nbsp;"),
it contains the characters used to indent at each level.

This method produces a JSON text from a JavaScript value.

When an object value is found, if the object contains a toJSON
method, its toJSON method will be called and the result will be
stringified. A toJSON method does not serialize: it returns the
value represented by the name/value pair that should be serialized,
or undefined if nothing should be serialized. The toJSON method
will be passed the key associated with the value, and this will be
bound to the value

For example, this would serialize Dates as ISO strings.

Date.prototype.toJSON = function (key) {
    function f(n) {
        // Format integers to have at least two digits.
        return n < 10 ? '0' + n : n;
    }

    return this.getUTCFullYear() + '-' +
    f(this.getUTCMonth() + 1) + '-' +
    f(this.getUTCDate()) + 'T' +
    f(this.getUTCHours()) + ':' +
    f(this.getUTCMinutes()) + ':' +
    f(this.getUTCSeconds()) + 'Z';
};

You can provide an optional replacer method. It will be passed the
key and value of each member, with this bound to the containing
object. The value that is returned from your method will be
serialized. If your method returns undefined, then the member will
be excluded from the serialization.

If the replacer parameter is an array of strings, then it will be
used to select the members to be serialized. It filters the results
such that only members with keys listed in the replacer array are
stringified.

Values that do not have JSON representations, such as undefined or
functions, will not be serialized. Such values in objects will be
dropped; in arrays they will be replaced with null. You can use
a replacer function to replace those with JSON values.
JSON.stringify(undefined) returns undefined.

The optional space parameter produces a stringification of the
value that is filled with line breaks and indentation to make it
If the space parameter is a non-empty string, then that string will be used for indentation. If the space parameter is a number, then the indentation will be that many spaces.

Example:

```javascript
const text = JSON.stringify(["e", {pluribus: "unum"}]);
// text is ['"e",{"pluribus":"unum"}]'

const text = JSON.stringify(["e", {pluribus: "unum"}], null, "\t");
// text is ['\t"e",\t{"\t\t"pluribus":"unum\t"}]'

const text = JSON.stringify([new Date()], function (key, value) {
    return this[key] instanceof Date ? 'Date(' + this[key] + ')' : value;
});
// text is ['"Date(---current time---)"']

JSON.parse(text, reviver)
This method parses a JSON text to produce an object or array. It can throw a SyntaxError exception.

The optional reviver parameter is a function that can filter and transform the results. It receives each of the keys and values, and its return value is used instead of the original value. If it returns what it received, then the structure is not modified. If it returns undefined then the member is deleted.

Example:

// Parse the text. Values that look like ISO date strings will
// be converted to Date objects.

const myData = JSON.parse(text, function (key, value) {
    var a;
    if (typeof value === 'string') {
        a = /^\d{4}-(\d{2})-(\d{2})T(\d{2}):(.\d{2}(?:\.\d*)?)Z$/.exec(value);
        if (a) {
            return new Date(Date.UTC(+a[1], +a[2] - 1, +a[3], +a[4], +a[5], +a[6]));
        }
    }
    return value;
});
myData = JSON.parse('"Date(09/09/2001)"'), function (key, value) {
  var d;
  if (typeof value === 'string' &&
      value.slice(0, 5) === 'Date(' &&
      value.slice(-1) === ')') {
    d = new Date(value.slice(5, -1));
    if (d) {
      return d;
    }
  }
  return value;
});

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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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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

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1.634 microsoft-powershell-sdk 4.5.50709

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Microsoft.Management.Infrastructure
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NuGet.Configuration
NuGet.DependencyResolver.Core
NuGet.Frameworks
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NuGet.Packaging
NuGet.Packaging.Core
NuGet.Packaging.Core.Types
NuGet.ProjectModel
NuGet.Protocol.Core.Types
NuGet.Protocol.Core.v3
NuGet.Repositories
NuGet.RuntimeModel
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--------------------------------------------------------

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-------------------------------------------------
PackageManagement
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File: PSReadLine

https://github.com/PowerShell/PSReadLine

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1.635 cffi 0.8.6

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1.636 guice 4.0

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' # New ports collection makefile for: python25
' Comment

' # Date created: 3 July 2003
' Comment

' # Whom: Hye-Shik Chang <perky@FreeBSD.org>
' Comment

' #
' Comment

' Comment

' Python
' Text

'PORTNAME' Name.Variable
'=' Operator
'\t' Text
'python25' Text
'un' Text

'PORTVERSION' Name.Variable
'=' Operator
'
'2'.5.1' Text
'un' Text

'CATEGORIES' Name.Variable
'=' Operator
'
'lang' Text
'
'python' Text
'
'ipv6' Text
'un' Text

'MASTER_SITES' Name.Variable
'=' Operator
'
'\${' PYTHON_MASTER_SITES' Name.Variable}
'
'MASTER_SITE_SUBDIR' Name.Variable
'=' Operator
'
'\${' PYTHON_MASTER_SITE_SUBDIR' Name.Variable}
'
'DISTFILES' Name.Variable
'=' Operator
'
'\${' PYTHON_DISTFILE' Name.Variable}
'
'MAINTAINER' Name.Variable
'=' Operator
Open Source Used In HyperFlex HX Data Platform 4.5(2d)  6424

'COMMENT'  Name.Variable
'?'  Operator
'?'  Text
'An'  Text
' '  Text
'interpreted'  Text
' '  Text
'object-oriented'  Text
' '  Text
'programming'  Text
' '  Text
'language'  Text
'"n"  Text

'"n"  Text

'DIST_SUBDIR'  Name.Variable
'='  Operator
'?'  Text
'python'  Text
'"n"  Text

'WRKSRC'  Name.Variable
'='  Operator
'"n"  Text
'${'}  Literal.String.Interpol
'PYTHON_WRKSRC'  Name.Variable
'}'  Literal.String.Interpol
'/portbld.static'  Text
'"n"  Text

'PATCH_WRKSRC'  Name.Variable
'='  Operator
'"n"  Text
'${'}  Literal.String.Interpol
'PYTHON_WRKSRC'  Name.Variable
'}'  Literal.String.Interpol
'"n"  Text

'GNU_CONFIGURE'  Name.Variable
'='  Operator
'"n"  Text
'yes'  Text
'"n"  Text
'CONFIGURE_TARGET' Name.Variable
 '=' Operator
 'at' Text
 '--build' Text
 '=' Operator
 '${' Literal.String.Interpol
 'MACHINE_ARCH' Name.Variable
 '}' Literal.String.Interpol
 '-portbld-freebsd' Text
 '${' Literal.String.Interpol
 'OSREL' Name.Variable
 '}' Literal.String.Interpol
 'un' Text

'CONFIGURE_SCRIPT' Name.Variable
 '=' Operator
 'at' Text
 './configure' Text
 ' must be relative\n' Comment.Single

'CONFIGURE_ENV' Name.Variable
 '=' Operator
 'at' Text
 'OPT' Name.Variable
 '=' Operator
 ' ' Literal.String.Double
 'SVNVERSION' Name.Variable
 '=' Operator
 '"echo freebsd"' Literal.String.Double
 'un' Text

'MAKE_ENV' Name.Variable
 '=' Operator
 'at' Text
 'VPATH' Name.Variable
 '=' Operator
 ' ' Literal.String.Double
 '${' Literal.String.Interpol
 'PYTHON_WRKSR' Name.Variable
 '}' Literal.String.Interpol
 'Literal.String.Double
INSTALLS_SHLIB' Name.Variable
'=' Operator
't' Text
'yes' Text
'un' Text

INSTALL_TARGET' Name.Variable
'=' Operator
't' Text
'altinstall' Text
'un' Text

MAN1' Name.Variable
'=' Operator
'ttt' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'.' Literal.String.Interpol
'.1' Text
'un' Text

'USE_PYTHON' Name.Variable
'=' Operator
't' Text
'yes' Text
'un' Text

'PYTHON_VERSION' Name.Variable
'=' Operator
't' Text
'python2.5' Text
'un' Text

'PYTHON_NO_DEPENDS' Name.Variable
'=' Operator
't' Text
'yes' Text
'un' Text

'SHARED_WRKSR' Name.Variable
'=' Operator
't' Text

'
'${'  Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'  Literal.String.Interpol
'/portbld.shared' Text
'un'  Text

'PLIST'  Name.Variable
'='  Operator
'un'  Text
's'  Literal.String.Interpol
'WRKDIR'  Name.Variable
'}'  Literal.String.Interpol
'/PLIST'  Text
'un'  Text

'PLIST_TEMPLATE' Name.Variable
'??='  Operator
's'  Literal.String.Interpol
'PKGDIR'  Name.Variable
'}'  Literal.String.Interpol
'/pkg-plist' Text
'un'  Text

'PLIST_SUB'  Name.Variable
'='  Operator
'un'  Text
'PYVER'  Name.Variable
'='  Operator
's'  Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'  Punctuation
'S'  Name.Variable
'/python/'  Punctuation
'}'  Literal.String.Interpol
'\n'  Literal.String.Escape

'un'  Text

'PYVER_WITHPAT' Name.Variable
'='  Operator
's'  Literal.String.Interpol
'PORTVERSION' Name.Variable
'}'  Punctuation
'S'  Name.Variable
'/c/c/'  Punctuation
'}'  Literal.String.Interpol
'\n'  Literal.String.Escape

'un'  Text

'PORTVERSION' Name.Variable
'}'  Punctuation
'S'  Name.Variable
'/c/c/'  Punctuation
'}'  Literal.String.Interpol
'un'  Text
'DEMODIR' Name.Variable
'=' Operator
'\t' Text
'${' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol
'/share/examples/' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'\n' Text

'TOOLSDIR' Name.Variable
'=' Operator
'\t' Text
'${' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol
'/share/' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'\n' Text

'\n' Text

'BIN_SCRIPTS' Name.Variable
'=' Operator
'\t' Text
'idle' Text
' ' Text
'pydoc' Text
' ' Text
'python' Text
' ' Text
'python-shared' Text
' ' Text
'smtpd.py' Text
' ' Text
'python-config' Text
' ' Text
'\n' Literal.String.Escape
'\t\t' Text
'python-shared-config' Text
'\n' Text

'BINLINKS_SUB' Name.Variable
OPTIONS = THREADS "Enable thread support" on\
HUGE_STACK_SIZE = "Use a larger thread stack" off\
UCS4 = "Use UCS4 for unicode support" on\
PYPYMALLOC = "Use python's internal malloc"
on

"Enable IPv6 support"

on

"Enable floating point exception handling"

off

.include <bsd.port.pre.mk>

.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}

'MLINKS' =

'MFECTL'

"Enable floating point exception handling"

'off'

'\n' 

PLIST_SUB += IF_DEFAULT = ""

.else

'MLINKS' Name.Variable

'=' Operator

'\n'

'${' Literal.String.Interpol

'PYTHON_VERSION' Name.Variable

'}' Literal.String.Interpol

'.1' Text

'python.1' Text

'\n' 

'PLIST_SUB' Name.Variable

'+=' Operator

'\n'

'IF_DEFAULT' Name.Variable

'=' Operator

'\n' 

'.else\n' Comment.Preproc

'}
'PLIST_SUB' Name.Variable
'+=' Operator
't' Text
'IF_DEFAULT' Name.Variable
'=' Operator
'"@comment " Literal.String.Double
'un' Text
'.endif' Comment.Preproc

'un' Text

'# workaround for a bug in base curses.h
'CFLAGS' Name.Variable
'+=' Operator
't' Text
'-D__wchar_t' Text
'=' Operator
'wchar_t' Text
'un' Text

'un' Text

'.if !defined(WITHOUT_THREADS)
'CFLAGS' Name.Variable
'+=' Operator
'tt' Text
'-D--with-threads' Text
'un' Text

'CFLAGS' Name.Variable
'+=' Operator
'tt' Text
'${PTHREAD_CFLAGS}' Name.Variable
'} Literal.String.Interpol
'un' Text

'.if defined(WITHOUT_HUGE_STACK_SIZE)
'CFLAGS' Name.Variable
'+=' Operator
'tt' Text
'${PTHREAD_CFLAGS}STACK_SIZE' Name.Variable
'} Literal.String.Interpol
'un' Text

'.if defined(WITHOUT_HUGE_STACK_SIZE)
'CFLAGS' Name.Variable
'+=' Operator
'tt' Text
'${PTHREAD_CFLAGS}STACK_SIZE' Name.Variable
'} Literal.String.Interpol
'un' Text


`.endif # defined(WITHOUT_HUGE_STACK_SIZE)`

`.else

`CONFIGURE_ENV' Name.Variable
`+=` Operator
`@\t` Text
`LDFLAGS' Name.Variable
`=' Operator
``` Literal.String.Double
`$' Literal.String.Interpol
`PTHREAD_LIBS' Name.Variable
`)' Literal.String.Interpol
` ' Literal.String.Double
`$' Literal.String.Interpol
`LDFLAGS' Name.Variable
`)' Literal.String.Interpol
``` Literal.String.Double
`un' Text

`.else

`CONFIGURE_ARGS' Name.Variable
`+=` Operator
`@\t` Text
`--without-threads' Text
`un' Text

`.if defined(LDFLAGS)un' Comment.Preproc

`CONFIGURE_ENV' Name.Variable
`+=` Operator
`@\t` Text
`LDFLAGS' Name.Variable
`=' Operator
``` Literal.String.Double
`$' Literal.String.Interpol
`LDFLAGS' Name.Variable
`)' Literal.String.Interpol
``` Literal.String.Double

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```
')
""
'\n'
'.endif # defined(LDFLAGS)\n' Comment.Preproc

'.endif # !defined(WITHOUT_THREADS)\n' Comment.Preproc

'\n'
'.if !defined(WITHOUT_UCS4) && !defined(WITH_UCS2)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+' Operator
'\t' Text
'--enable-unicode' Text
'=' Operator
'ucs4' Text
'\n'
'.endif\n' Comment.Preproc

'\n'
'.if defined(WITHOUT_PYMALLOC)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+' Operator
'\t' Text
'--without-pymalloc' Text
'\n'
'.endif\n' Comment.Preproc

'\n'
'.if \${ARCH} == i386\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+' Operator
'\t' Text
'X86_ONLY' Name.Variable
'=' Operator
'""" Literal.String.Double
'\n'
'.else\n' Comment.Preproc
```
'PLIST_SUB' Name.Variable
'+=' Operator
'
'X86_ONLY' Name.Variable
'=' Operator
'"@comment " Literal.String.Double
'un' Text

'.endif' Comment.Preproc

'.if ${ARCH} == amd64 || ${ARCH} == ia64 || ${ARCH} == sparc64 || ${ARCH} == alpha
'PLIST_SUB' Name.Variable
'+=' Operator
'     ' Text
'32BIT_ONLY' Name.Variable
'=' Operator
'"@comment " Literal.String.Double
'un' Text

'.endif' Comment.Preproc

'.if !exists(/usr/bin/ypcat) # the world with NO_NIS

'.endif' Comment.Preproc

'.if ${ARCH} == sparc64
'CFLAGS' Name.Variable
'+=' Operator
'        ' Text
'-DPYTHON_DEFAULT_RECURSION_LIMIT' Text
'=' Operator
'900' Literal.Number
'un' Text

'.endif' Comment.Preproc

'un' Text

'.if !exists(/usr/bin/ypcat) # the world with NO_NIS

'PLIST_SUB' Name.Variable
'+' Operator
'
'NO_NIS' Name.Variable
'=' Operator
'' Literal.String.Double
'
'.else
'
'PLIST_SUB' Name.Variable
'+' Operator
'
'NO_NIS' Name.Variable
'=' Operator
'' Literal.String.Double
'
'.endif
'
'.if !defined(WITHOUT_IPV6)
'
'CONFIGURE_ARGS' Name.Variable
'+' Operator
' ' Text
'--enable-ipv6' Text
'
'.endif
'
'.if defined(WITH_FPECTL)
'
'CONFIGURE_ARGS' Name.Variable
'+' Operator
' ' Text
'--with-fpectl' Text
'
'.endif
'
'.if defined(WITHOUT_IPV6)
'
'CONFIGURE_ARGS' Name.Variable
'+' Operator
' ' Text
'--disable-ipv6' Text
'
'.endif

`\n` Text

`.endif` Comment.Preproc

`\n` Text

`.if\n` Text

`.endif` Comment.Preproc

`\n` Text

`.if\n` Text

`.endif` Comment.Preproc

`\n` Text

`.elif\n` Text

`.endif` Comment.Preproc

`\n` Text

`.else\n` Text

`.endif` Comment.Preproc

`\n` Text

`pre-patch` Name.Function

`\n` Text

`\n` Text
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```
' 
'\\n' Literal.String.Escape

'\\t' Text
"s|\w\..INSTALL_SCRIPT.*\\)python-config$$|#port \1|"" Literal.String.Single
' 
'\\n' Literal.String.Escape

'\\t' Text
'${' Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Makefile.pre.in' Text
'

'\\tt' Text
'${' Literal.String.Interpol
'SED' Name.Variable
'}' Literal.String.Interpol
'\-e' Text
' ' Text
'

"s|^#!.*|#!${PREFIX}/bin/${PYTHON_VERSION}|"" Literal.String.Single
' 
'\\n' Literal.String.Escape

'\\t' Text
'${' Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Misc/python-config.in' Text
'

'\>' Text
'

'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'\-' Text
'

'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'\-config' Text
'

'\n' Text
'${' Literal.String.Interpol
'SED' Name.Variable
'}' Literal.String.Interpol
'\-' Text
' ' Text
'

"s|^#!.*|#!${PREFIX}/bin/${PYTHON_VERSION:S/thon/thon-shared/}|"" Literal.String.Single
```
'\n'  Text
'\n'  Text
'

'.if defined(WITH_FPECTL) && ${ARCH} == i386
	'${'          Literal.String.Interpol
'MKDIR'       Name.Variable
'}'           Literal.String.Interpol
'
	'${'          Literal.String.Interpol
'WRKSRC'      Name.Variable
'}'           Literal.String.Interpol
'/Modules
	'${'          Literal.String.Interpol
'ECHO'        Name.Variable
'}'           Literal.String.Interpol
'fpectl fpectlmodule.c'' Literal.String.Double
'

'&& $({ARCH} == i386) == i386

'MKDIR'       Name.Variable
'}'           Literal.String.Interpol
'
	'${'          Literal.String.Interpol
'WRKSRC'      Name.Variable
'}'           Literal.String.Interpol
'/Modules

'MKDIR'       Name.Variable
'}'           Literal.String.Interpol
'
	'${'          Literal.String.Interpol
'WRKSRC'      Name.Variable
'}'           Literal.String.Interpol
'/Modules
post-configure:

```

	${TAR}'-C'${WRKSRC}'-cf'-'|'

	${TAR}'-C'${SHARED_WRKSRC}'-xf'

	${LN}'-sf'
```

""" Text
'${' Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Lib' Text
'${' Literal.String.Interpol
'WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Lib' Text
'un't Text
'${' Literal.String.Interpol
'SED' Name.Variable
'}' Literal.String.Interpol
'-' Text
'-' Text
"s,^\(LDLIBRARY=\).*$$,\1libpython$$(VERSION).so,""" Literal.String.Single
'\n' Literal.String.Escape
'\n' Text
'\n' Text
"s,^\(BLDLIBRARY=\).*$$,\1-L. -lpython$$(VERSION),""" Literal.String.Single
'\n' Literal.String.Escape
'\n' Text
'\n' Text
"s,^\(CFLAGSFORSHARED=\).*$$,\1$(CCSHARED),""" Literal.String.Single
'\n' Literal.String.Escape
'\n' Text
'\n' Text
"s,^\(Makefile Modules/config.c:.*\).Makefile.pre,\1,""" Literal.String.Single
'\n' Literal.String.Escape
'\n' Text
'\n' Text
"s,^\(BUILDPYTHON)\(*\).\(LIBRARY)\(*\),""" Literal.String.Single
'\n' Text
'\n' Literal.String.Escape
'\n' Literal.String.Escape

'\n' Literal.String.Escape

'\n' Literal.String.Escape

'\n' Literal.String.Escape

'\n' Literal.String.Escape

'\n' Literal.String.Escape

'\n' Literal.String.Escape

'\n' Literal.String.Escape

'\n' Literal.String.Escape

'\n' Literal.String.Escape

'\n' Literal.String.Escape

'\n' Literal.String.Escape

'\n' Literal.String.Escape

'\n' Literal.String.Escape

'\n' Literal.String.Escape

'\n' Literal.String_ESCAPE

'\n' Literal.String_ESCAPE
.for platform in ${PLATFORMS}
	${MKDIR} ${PYTHONPREFIX_LIBDIR}/${platform}

.for file in IN.py regen
	${INSTALL_DATA} ${WRKSRC}/Lib/${platform}/${file}
	${PYTHONPREFIX_LIBDIR}

.for file in IN.py regen
	${INSTALL_DATA} ${WRKSRC}/Lib/${platform}/${file}
	${PYTHONPREFIX_LIBDIR}
pre-install:

```
	${CAT} ${PLIST_TEMPLATE} | ${AWK} "\{ print $$0; \} \|n\|t/LIBDIR.*/py$$/ && !/bad/ { print $$0 "o"; print $$0 "c"; }\""
```

```
@# if openssl 0.9.8 is detected, _sha{256,512} module won't be installed
```

post-install:

@# install config providers

"@# install config providers

"$" INSTALL_SCRIPT" = INSTALLED;

"$" WRKDIR" = PYTHON_VERSION" -config

"$" PREFIX" = bin

"$" INSTALL_SCRIPT" = WRKDIR" PYTHON_VERSION"


S
/thon/thon-shared/

`-config`

'${'

'PREFIX'

'}/bin'

'un\n'

'## shared version of executable and library

'${' 

'INSTALL_PROGRAM'

'}/lib'

'${' 

'PYTHON_VERSION'

'.so.1'

'\n'

'cd'

'${' 

'PREFIX'

'}/lib'

';'

'LN'

'-sf'
'' Text
'l' Text
'$\{' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'.so.' Text
'\n' Literal.String.Escape
'		' Text
'l' Text
'$\{' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'.so' Text
'\n' Text
'$\{' Literal.String.Interpol
'LN' Name.Variable
'}' Literal.String.Interpol
'-sf' Text
' ' Text
'$\{' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol
'/lib/lib' Text
'$\{' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'/lib/lib' Text
'$\{' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol
'/lib/lib' Text
'$\{' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'/lib/lib' Text
'$\{' Literal.String.Interpol
'PYTHONPREFIX_LIBDIR' Name.Variable
'}' Literal.String.Interpol
'/config' Text
'\n' Text
'$\{' Literal.String.Interpol
'INSTALL_PROGRAM' Name.Variable
'}' Literal.String.Interpol
'\n' Literal.String.Escape
'
' Text
'$\{' Literal.String.Interpol
'SHARED_WRKSPACE' Name.Variable
'}' Literal.String.Interpol
'\n' Text
'}' Literal.String.Interpol
'}' Literal.String.Interpol
'}' Literal.String.Interpol

'PYTHON_VERSION' Name.Variable
'.' Punctuation
'S' Name.Variable
'/thon/thon-shared/' Punctuation
'}' Literal.String.Interpol
' ' Text
'\n' Literal.String.Escape
'
' Text
'${' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol
'/bin' Text
'\n' Text

'@# additional files installing by ports\n' Comment

'@' Text
'${' Literal.String.Interpol
'INSTALL_SCRIPT' Name.Variable
'}' Literal.String.Interpol
' ' Text
'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'/pydoc2.5' Text
' ' Text
'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'/idle2.5' Text
' ' Text
'\n' Literal.String.Escape

'@' Text
'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'/smtpd2.5.py' Text
' ' Text
'${' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol
'/bin' Text
'\n' Text
'@' Text
'${' Literal.String.Interpol
'MKDIR' Name.Variable

'TARGET' Name.Variable
'=' Operator
' ' Literal.String.Backtick
'$\{' Literal.String.Interpol
'ECHO_CMD' Name.Variable
'\}' Literal.String.Interpol
' ' Text
'$\$' Name.Variable
'f' Text
' ' Text
' ' Punctuation
' ' Text
'$\{' Literal.String.Interpol
'SED' Name.Variable
'\}' Literal.String.Interpol
' ' Text
'-E' Text
' ' Text
'$\{' Literal.String.Interpol
'BINLINGS_SUB' Name.Variable
'\}' Literal.String.Interpol
' ' Literal.String.Backtick
' ' Punctuation
' ' Text
'\\n' Literal.String.Escape
'
' Text
'cd' Name.Builtin
' ' Text
'$\{' Literal.String.Interpol
'PREFIX' Name.Variable
'\}' Literal.String.Interpol
'/bin' Text
' ' Text
'&&' Operator
' ' Text
'$\{' Literal.String.Interpol
'LN' Name.Variable
'\}' Literal.String.Interpol
' ' Text
'-f' Text
' ' Text
'$\$' Name.Variable
'TARGET' Text
' ' Text
'$\$' Name.Variable
'f' Text
' ' Punctuation
```
```

```
```
```
```
'${'  Literal.String.Interpol
'TOOLSDIR'  Name.Variable
'}'  Literal.String.Interpol
' '  Text
'${'  Literal.String.Interpol
'TAR'  Name.Variable
'}'  Literal.String.Interpol
' '  Text
'-xf'  Text
' '  Text
'.'  Text
')'  Operator
'
	'  Text
'@'  Text
'${'  Literal.String.Interpol
'MKDIR'  Name.Variable
'}'  Literal.String.Interpol
' '  Text
'${'  Literal.String.Interpol
'DEMODIR'  Name.Variable
'}'  Literal.String.Interpol
' '  Text
'@cd'  Text
' '  Text
'${'  Literal.String.Interpol
'PYTHON_WRKSRC'  Name.Variable
'}'  Literal.String.Interpol
'/Demo'  Text
'.'  Punctuation
' '  Text
'${'  Literal.String.Interpol
'TAR'  Name.Variable
'}'  Literal.String.Interpol
' '  Text
'-cf'  Text
' '  Text
'.'  Text
' '  Text
's'  Text
' '  Text
'|'  Punctuation
' '  Text
'\n'  Literal.String.Escape
'

'\n'  Text
' '  Operator
'cd'  Name.Builtin


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1.638 libjpeg-turbo 1.4.2-0ubuntu3.4

1.638.1 Available under license:

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1.639 laptop-detect 0.13.7ubuntu2
1.639.1 Available under license:
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1.640 kerb-core 2.0.0
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jar/netty_epoll_linuxsocket.c
* /opt/cola/permits/1257282394_1642795730.28/0/netty-transport-native-epoll-4-1-45-final-sources-
jar/netty_epoll_linuxsocket.h
* /opt/cola/permits/1257282394_1642795730.28/0/netty-transport-native-epoll-4-1-45-final-sources-
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* /opt/cola/permits/1257282394_1642795730.28/0/netty-transport-native-epoll-4-1-45-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannel.java
* /opt/cola/permits/1257282394_1642795730.28/0/netty-transport-native-epoll-4-1-45-final-sources-jar/io/netty/channel/epoll/EpollTcpInfo.java
* /opt/cola/permits/1257282394_1642795730.28/0/netty-transport-native-epoll-4-1-45-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannel.java
* /opt/cola/permits/1257282394_1642795730.28/0/netty-transport-native-epoll-4-1-45-final-sources-jar/io/netty/channel/epoll/EpollChannelOption.java
* /opt/cola/permits/1257282394_1642795730.28/0/netty-transport-native-epoll-4-1-45-final-sources-jar/io/netty/channel/epoll/Epoll.java
* /opt/cola/permits/1257282394_1642795730.28/0/netty-transport-native-epoll-4-1-45-final-sources-jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/cola/permits/1257282394_1642795730.28/0/netty-transport-native-epoll-4-1-45-final-sources-jar/io/netty/channel/epoll/EpollSocketChannel.java
* /opt/cola/permits/1257282394_1642795730.28/0/netty-transport-native-epoll-4-1-45-final-sources-jar/io/netty/channel/epoll/AbstractEpollChannel.java
* /opt/cola/permits/1257282394_1642795730.28/0/netty-transport-native-epoll-4-1-45-final-sources-jar/io/netty/channel/epoll/EpollEventLoop.java
* /opt/cola/permits/1257282394_1642795730.28/0/netty-transport-native-epoll-4-1-45-final-sources-jar/io/netty/channel/epoll/package-info.java
* /opt/cola/permits/1257282394_1642795730.28/0/netty-transport-native-epoll-4-1-45-final-sources-jar/io/netty/channel/epoll/AbstractEpollChannel.java

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 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */

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* /opt/cola/permits/1257282394_1642795730.28/0/netty-transport-native-epoll-4-1-45-final-sources-
  jar/io/netty/channel/epoll/EpollEventArray.java
* /opt/cola/permits/1257282394_1642795730.28/0/netty-transport-native-epoll-4-1-45-final-sources-
  jar/io/netty/channel/epoll/EpollChannelConfig.java
* /opt/cola/permits/1257282394_1642795730.28/0/netty-transport-native-epoll-4-1-45-final-sources-
  jar/io/netty/channel/epoll/AbstractEpollServerChannel.java
* /opt/cola/permits/1257282394_1642795730.28/0/netty-transport-native-epoll-4-1-45-final-sources-
  jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
* /opt/cola/permits/1257282394_1642795730.28/0/netty-transport-native-epoll-4-1-45-final-sources-
  jar/io/netty/channel/epoll/EpollDomainSocketChannel.java
* /opt/cola/permits/1257282394_1642795730.28/0/netty-transport-native-epoll-4-1-45-final-sources-
  jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
* /opt/cola/permits/1257282394_1642795730.28/0/netty-transport-native-epoll-4-1-45-final-sources-
  jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
* /opt/cola/permits/1257282394_1642795730.28/0/netty-transport-native-epoll-4-1-45-final-sources-
  jar/io/netty/channel/epoll/EpollServerDomainSocketChannelConfig.java
* /opt/cola/permits/1257282394_1642795730.28/0/netty-transport-native-epoll-4-1-45-final-sources-
  jar/io/netty/channel/epoll/EpollMode.java
* /opt/cola/permits/1257282394_1642795730.28/0/netty-transport-native-epoll-4-1-45-final-sources-
  jar/io/netty/channel/epoll/EpollServerChannelConfig.java
* /opt/cola/permits/1257282394_1642795730.28/0/netty-transport-native-epoll-4-1-45-final-sources-
  jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
* /opt/cola/permits/1257282394_1642795730.28/0/netty-transport-native-epoll-4-1-45-final-sources-
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/**
 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */
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 * Set the {@code TCP_QUICKACK} option on the socket. See <a
 * href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
 * for more details.
 */

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1.643 slf4j 1.7.25

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1.644 jersey-client 1.19.3
1.645 scala-reflect 2.12.1

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   * The entry point into Scala runtime reflection.
   *
   * To use Scala runtime reflection, simply use or import `scala.reflect.runtime.universe._`
   *
   * See [[scala.reflect.api.Universe]] or the
   * for more details.
   */
```

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* /opt/cola/permits/1150819472_1617691637.24/0/scala-reflect-2-12-1-sources-1-jar/scala/reflect/runtime/package.scala

1.646 jackson-jaxrs 2.10.0

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1.647 gtk 2.0

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is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
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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
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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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

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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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   (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
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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.

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
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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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- javaee_web_services_client_1_2.xsd
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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
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
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1.657 jackson 2.10.3

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1.658 miekg-dns

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1.659 gnutls 3.4.10

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1.665 icu 4.8.1.1-3ubuntu0.10

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```
---*-makefile-*---
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## 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/\([^$*]\)\[ :\]/\1.o $@ : /g' > $@; \n[ -s $@ ] || rm -f $@

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed 's/\([^$*]\)\[ :\]/\1.o $@ : /g' > $@; \n[ -s $@ ] || rm -f $@

## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s $< $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s $< $@

## End FreeBSD-specific setup
1.666 go-sockaddr
c7188e74f6aace5a989bdc959aa779f8b9f42fafa

1.666.1 Available under license:
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Manifest-Version: 1.0
Implementation-Title: Netty/Codec/Socks
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name: io.netty.codec.socks
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Implementation-Version: 4.1.47.Final
Built-By: root
Bnd-LastModified: 1583757734093
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
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Import-Package: io.netty.buffer;version="[4.1,5)";io.netty.channel;version="[4.1,5)";io.netty.handler.codec;io.netty.util;version="[4.1,5)";io.netty.util.internal;version="[4.1,5)";io.netty.util.internal.logging;version="[4.1,5)";sun.nio.ch;resolution=optional;org.eclipse.jetty.npn;version="[1,2)";resolution=optional;org.eclipse.jetty.alpn;version="[1,2)";resolution=optional
Require-Capability: osgi.ee:filter="(&osgi.ee=JavaSE)(version=1.6)"
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1.677 icu 55.1-7ubuntu0.2

1.677.1 Available under license:

This package was debianized by Jay Berkenbilt <qjb@debian.org> on August 5, 2005.
The packaging was taken over by Laszlo Boszormenyi (GCS) <gcs@debian.org> on Tue, 17 Mar 2015.

The original source was downloaded from http://icu-project.org/download/latest_milestone.html

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### -*-makefile-*-
### BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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### Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

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

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

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

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

### Shared object suffix
SO = so
### Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.c) $< \n | sed "\"s/(\*\*)/\1.o \$@ : /g\" > $@; \n [ -s $@ ] || rm -f $@"
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.cc) $< \n | sed "\"s/(\*\*)/\1.o \$@ : /g\" > $@; \n [ -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) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymblic

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

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
1.678 jackson-datatype-guava 2.9.10

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Version 2.0, January 2004

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1.679 txw2 2.2.11

1.680 plexus-utils 3.0.17
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* [https://github.com/eclipse-ee4j/jaxrs-api](https://github.com/eclipse-ee4j/jaxrs-api)

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* Project: http://site.mockito.org
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1.682 llvm 3.8-2ubuntu4

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

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

    CF246:
    ; preds = %CF246, %BB
    %SI163 = select i1 %Cmp56, i8 %L34, i8 undef
    br i1 undef, label %CF246, label %CF248

    CF248:
    ; preds = %CF248, %CF246
    store i8 %SI163, i8* %0
    br label %CF248
}

; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=avx512vl,avx512bw,avx512dq,prefer-256-bit | FileCheck %s

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

define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: add256:
    ; CHECK:     # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT: vpadd (%rsi), %ymm0, %ymm0
    ; CHECK-NEXT: vpadd 32(%rsi), %ymm1, %ymm1
    ; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
    ; CHECK-NEXT: vmovdqa %ymm0, ( %rdx)
    ; CHECK-NEXT: vzeroupper
```
; CHECK-NEXT: retq
%d = load <16 x i32>, <16 x i32>* %a
%e = load <16 x i32>, <16 x i32>* %b
%f = add <16 x i32> %d, %e
store <16 x i32> %f, <16 x i32>* %c
ret void
}
define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
; CHECK-LABEL: add512:
; CHECK:
# %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpaddd (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%d = load <16 x i32>, <16 x i32>* %a
%e = load <16 x i32>, <16 x i32>* %b
%f = add <16 x i32> %d, %e
store <16 x i32> %f, <16 x i32>* %c
ret void
}
define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
; CHECK-LABEL: avg_v64i8_256:
; CHECK:
# %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT: vpavgb (%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpavgb 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT: vmovdqu %ymm1, (%rax)
; CHECK-NEXT: vmovdqu %ymm0, (%rax)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%1 = load <64 x i8>, <64 x i8>* %a
%2 = load <64 x i8>, <64 x i8>* %b
%3 = zext <64 x i8> %1 to <64 x i32>
%4 = zext <64 x i8> %2 to <64 x i32>
%5 = add nuw nsw <64 x i32> %3, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%6 = add nuw nsw <64 x i32> %5, %4
%7 = lshr <64 x i32> %6, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%8 = trunc <64 x i32> %7 to <64 x i8>

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define void @avg_v64i8_512(%a, %b) "min-legal-vector-width"="512" {
    CHECK-LABEL: avg_v64i8_512:
    CHECK: # %bb.0:
    CHECK-NEXT: vmovdqa64 (%rsi), %zmm0
    CHECK-NEXT: vpavgb (%rdi), %zmm0, %zmm0
    CHECK-NEXT: vmovdqu64 %zmm0, (%rax)
    CHECK-NEXT: vzeroupper
    CHECK-NEXT: retq

%1 = load <64 x i8>, <64 x i8>* %a
%2 = load <64 x i8>, <64 x i8>* %b
%3 = zext <64 x i8> %1 to <64 x i32>
%4 = zext <64 x i8> %2 to <64 x i32>
%5 = add nuw nsw <64 x i32> %3, %4
%6 = lshr <64 x i32> %5, %4
%7 = lsbr <64 x i32> %6
%8 = store <64 x i8> %8, <64 x i8>* undef, align 4
ret void
}

define void @pmaddwd_32_256(%APtr, %BPtr, %CPtr) "min-legal-vector-width"="256" {
    CHECK-LABEL: pmaddwd_32_256:
    CHECK: # %bb.0:
    CHECK-NEXT: vmovdqa (%rdi), %ymm0
    CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
    CHECK-NEXT: vpmaddwd (%rsi), %ymm0, %ymm0
    CHECK-NEXT: vpmaddwd 32(%rsi), %ymm1, %ymm1
    CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
    CHECK-NEXT: vmovdqa %ymm0, (%rdx)
    CHECK-NEXT: vzeroupper
    CHECK-NEXT: retq

%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
store <64 x i8> %8, <64 x i8>* undef, align 4
ret void
}
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> %i32 0, %i32 2, %i32 4, %i32 6, %i32 8, %i32 10, %i32 12, %i32 14, %i32 16, %i32 18, %i32 20, %i32 22, %i32 24, %i32 26, %i32 28, %i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> %i32 1, %i32 3, %i32 5, %i32 7, %i32 9, %i32 11, %i32 13, %i32 15, %i32 17, %i32 19, %i32 21, %i32 23, %i32 25, %i32 27, %i32 29, %i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32> * %CPtr
ret void
}

define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: pmaddwd_32_512:
  ; CHECK: # %bb.0:
  ; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
  ; CHECK-NEXT: vpmaddwd (%rsi), %zmm0, %zmm0
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
  %A = load <32 x i16>, <32 x i16>* %APtr
  %B = load <32 x i16>, <32 x i16>* %BPtr
  %a = sext <32 x i16> %A to <32 x i32>
  %b = sext <32 x i16> %B to <32 x i32>
  %m = mul nsw <32 x i32> %a, %b
  %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
  %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
  %ret = add <16 x i32> %odd, %even
  store <16 x i32> %ret, <16 x i32> * %CPtr
  ret void
}

define void @psibus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: psibus_64i8_max_256:
  ; CHECK: # %bb.0:
  ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
  ; CHECK-NEXT: vpusubusb (%rsi), %ymm0, %ymm0
  ; CHECK-NEXT: vpusubusb 32(%rsi), %ymm1, %ymm1
  ; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
  ; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
  %x = load <64 x i8>, <64 x i8>* %xptr
  %y = load <64 x i8>, <64 x i8>* %yptr
  %cmp = icmp ult <64 x i8> %x, %y
  %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {  
; CHECK-LABEL: psubus_64i8_max_512:  
; CHECK: # %bb.0:  
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0  
; CHECK-NEXT: vpsubusb (%rsi), %zmm0, %zmm0  
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)  
; CHECK-NEXT: vzeroupper  
; CHECK-NEXT: retq  
%x = load <64 x i8>, <64 x i8>* %xptr  
%y = load <64 x i8>, <64 x i8>* %yptr  
%cmp = icmp ult <64 x i8> %x, %y  
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x  
%res = sub <64 x i8> %max, %y  
store <64 x i8> %res, <64 x i8>* %zptr  
ret void  
}

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

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

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

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%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>  
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17  
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>  
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19  
%13 = extractelement <32 x i32> %bin.rdx20, i32 0  
ret i32 %13}

define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {  
; CHECK-LABEL: _Z9test_charPcS_i_512:  
; CHECK:      # %bb.0: # %entry  
; CHECK-NEXT:    movl %edx, %eax  
; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0  
; CHECK-NEXT:    xorl %ecx, %ecx  
; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1  
; CHECK-NEXT:    .p2align 4, 0x90  
; CHECK-NEXT:  .LBB9_1: # %vector.body  
; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1  
; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %zmm2  
; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %zmm3  
; CHECK-NEXT:    vpmaddwd %zmm2, %zmm3, %zmm2  
; CHECK-NEXT:    vpaddd %zmm1, %zmm2, %zmm1  
; CHECK-NEXT:    .p2align 4, 0x90  
; CHECK-NEXT:  .LBB9_2: # %middle.block  
; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %zmm0  
; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm1  
; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0  
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1  
; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0  
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]  
; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0  
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]  
; CHECK-NEXT:    vpaddd %zmm1, %xmm0, %xmm0  
; CHECK-NEXT:    vmovd %xmm0, %eax  
; CHECK-NEXT:    vzeroupper  
; CHECK-NEXT:    retq  

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

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}
@a = global [1024 x i8] zeroinitializer, align 16
@b = global [1024 x i8] zeroinitializer, align 16

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

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

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%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%.lcssa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}
define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
...
define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    entry:
    br label %vector.body
vector.body:
    %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
    %vec.phi = phi <16 x i32> [ zeroinitialize, %entry ], [ %10, %vector.body ]
    %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
    %1 = bitcast i8* %0 to <16 x i8>*
    %wide.load = load <16 x i8>, <16 x i8>* %1, align 4
    %2 = zext <16 x i8> %wide.load to <16 x i32>
    %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
    %4 = bitcast i8* %3 to <16 x i8>*
    %wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
    %5 = zext <16 x i8> %wide.load1 to <16 x i32>
    %6 = sub nsw <16 x i32> %2, %5
    %7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
    %8 = sub nsw <16 x i32> zeroinitialize, %6
    %9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
    %10 = add nsw <16 x i32> %9, <16 x i32> %10
    br i1 %10, label %middle.block, label %vector.body
middle.block:
    %.lcssa = phi <16 x i32> [ %10, %vector.body ]
    %rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
    %bin.rdx = add <16 x i32> %rdx.shuf
    %rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
    %bin.rdx2 = add <16 x i32> %rdx.shuf2
    %rdx.shuf3 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
    %bin.rdx3 = add <16 x i32> %rdx.shuf3
    %rdx.shuf4 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
    %bin.rdx4 = add <16 x i32> %rdx.shuf4
    %12 = extractelement <16 x i32> %bin.rdx4, i32 0
    ret i32 %12
}
define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {

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

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

%mask = icmp slt <16 x i16> %a, zeroinitialize
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}
define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res)"min-legal-vector-width"="512" {  
    ; CHECK-LABEL: sbto16f64_512:  
    ; CHECK:       # %bb.0:  
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0  
    ; CHECK-NEXT:    vpmovm2d %k0, %zmm0  
    ; CHECK-NEXT:    vcvtdq2pd %ymm0, %zmm1  
    ; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm0  
    ; CHECK-NEXT:    vcvtdq2pd %ymm0, %zmm0  
    ; CHECK-NEXT:    vmovaps %zmm0, 64(%rdi)  
    ; CHECK-NEXT:    vmovaps %zmm1, (%rdi)  
    ; CHECK-NEXT:    vzeroupper  
    ; CHECK-NEXT:    retq  
    %mask = icmp slt <16 x i16> %a, zeroinitializer  
    %1 = sitofp <16 x i1> %mask to <16 x double>  
    store <16 x double> %1, <16 x double>* %res  
    ret void  
}
define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f32_512:
; CHECK:    # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vpsrlq $31, %zmm0, %zmm0
; CHECK-NEXT: vcvtq2ps %zmm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f64_256:
; CHECK:    # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vpsrlq $31, %ymm0, %ymm0
; CHECK-NEXT: vcvtq2pd %xmm0, %ymm1
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT: vcvtq2pd %xmm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm2
; CHECK-NEXT: vpsrlq $31, %ymm2, %ymm2
; CHECK-NEXT: vcvtq2pd %xmm2, %ymm3
; CHECK-NEXT: vcvtq2pd %xmm2, %ymm2
; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT: vpmovaps %ymm2, 32(%rdi)
; CHECK-NEXT: vpmovaps %ymm3, 32(%rdi)
; CHECK-NEXT: vpmovaps %ymm0, 96(%rdi)
; CHECK-NEXT: vpmovaps %ymm1, 64(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f64_512:
; CHECK:    # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vpsrlq $31, %zmm0, %zmm0
; CHECK-NEXT: vcvtq2ps %zmm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}
; CHECK-NEXT:  vpmovm2d %k0, %zmm0  
; CHECK-NEXT:  vpsld $31, %zmm0, %zmm0 
; CHECK-NEXT:  vcvtq2pd %ymm0, %zmm0 
; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm0 
; CHECK-NEXT:  vcvtq2pd %ymm0, %zmm0 
; CHECK-NEXT:  vmovaps %zmm0, 64(%rdi) 
; CHECK-NEXT:  vmovaps %zmm1, (%rdi) 
; CHECK-NEXT:  vzeroupper 
; CHECK-NEXT:  retq 
%mask = icmp slt <16 x i16> %a, zeroinitializer  
%1 = uitofp <16 x i1> %mask to <16 x double>  
store <16 x double> %1, <16 x double>* %res 
ret void 
}  
}

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {  
; CHECK-LABEL: test_16f32toub_256:  
; CHECK:    # %bb.0:  
; CHECK-NEXT:  vcvtqps2dq (%rdi), %zmm1  
; CHECK-NEXT:  vpslld $31, %zmm1, %zmm1  
; CHECK-NEXT:  vpmovd2m %zmm1, %k1  
; CHECK-NEXT:  vmovdqu16 %ymm0, %ymm0 {%k1} {z}  
; CHECK-NEXT:  retq 
%a = load <16 x float>, <16 x float>* %ptr  
%mask = fptoui <16 x float> %a to <16 x i1>  
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer 
ret <16 x i16> %select 
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {  
; CHECK-LABEL: test_16f32toub_512:  
; CHECK:    # %bb.0:  
; CHECK-NEXT:  vcvtqps2dq (%rdi), %zmm1  
; CHECK-NEXT:  vpslld $31, %zmm1, %zmm1  
; CHECK-NEXT:  vpmovd2m %zmm1, %k1  
; CHECK-NEXT:  vmovdqu16 %ymm0, %ymm0 {%k1} {z}  
; CHECK-NEXT:  retq 
%a = load <16 x float>, <16 x float>* %ptr  
%mask = fptoui <16 x float> %a to <16 x i1>  
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer 
ret <16 x i16> %select 
}
define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: mul512:
    ; CHECK:    # %bb.0:
    %d = load <64 x i8>, <64 x i8>* %a
    %e = load <64 x i8>, <64 x i8>* %b
    %f = mul <64 x i8> %d, %e
    store <64 x i8> %f, <64 x i8>* %c
    ret void
}
; CHECK-NEXT:  vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:  vmovdqa64 (%rsi), %zmm1
; CHECK-NEXT:  vpunpckhbbw {{.*#+}} %zmm2 =
  ; CHECK-NEXT:  zmm1[8],zmm0[8],zmm1[9],zmm0[9],zmm1[10],zmm0[10],zmm1[11],zmm0[11],zmm1[12],zmm0[12],zmm1[13],
  ; CHECK-NEXT:  zmm0[13],zmm1[14],zmm0[14],zmm1[15],zmm0[15],zmm1[16],zmm0[16],zmm1[17],zmm0[17],zmm1[18],zmm0[18],zmm1[19],
  ; CHECK-NEXT:  zmm0[19],zmm1[20],zmm0[20],zmm1[21],zmm0[21],zmm1[22],zmm0[22],zmm1[23],zmm0[23],zmm1[32],zmm0[32],zmm1[33],zmm0[33],zmm1[34],zmm0[34],zmm1[35],zmm0[35],zmm1[36],zmm0[36],zmm1[37],zmm0[37],
  ; CHECK-NEXT:  zmm0[38],zmm1[38],zmm0[39],zmm1[39],zmm0[39],zmm1[40],zmm0[40],zmm1[41],zmm0[41],zmm1[42],zmm0[42],zmm1[43],zmm0[43],zmm1[44],zmm0[44],zmm1[45],zmm0[45],zmm1[46],zmm0[46],zmm1[47],zmm0[47],zmm1[56],zmm0[56],zmm1[57],zmm0[57],zmm1[58],zmm0[58],zmm1[59],zmm0[59],zmm1[60],zmm0[60],zmm1[61],zmm0[61],zmm1[62],zmm0[62],zmm1[63],zmm0[63]
; CHECK-NEXT:  vpunpckhbbw {{.*#+}} %zmm3 =
  ; CHECK-NEXT:  zmm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,42,42,43,43,44,44,45,45,46,46,47,47,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-NEXT:  vpmullw %zmm2, %zmm3, %zmm2
; CHECK-NEXT:  vpandq %zmm3, %zmm2
; CHECK-NEXT:  vpunpcklbw {{.*#+}} %zmm1 =
  ; CHECK-NEXT:  zmm1[0],zmm0[0],zmm1[1],zmm0[1],zmm1[2],zmm0[2],zmm1[3],zmm0[3],zmm1[4],zmm0[4],zmm1[5],zmm0[5],zmm1[6],zmm0[6],zmm1[7],zmm0[7],zmm1[16],zmm0[16],zmm1[17],zmm0[17],zmm1[18],zmm0[18],zmm1[19],zmm0[19],zmm1[20],zmm0[20],zmm1[21],zmm0[21],zmm1[22],zmm0[22],zmm1[23],zmm0[23],zmm1[32],zmm0[32],zmm1[33],zmm0[33],zmm1[34],zmm0[34],zmm1[35],zmm0[35],zmm1[36],zmm0[36],zmm1[37],zmm0[37],
; CHECK-NEXT:  vpmullw %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vpandq %zmm3, %zmm0
; CHECK-NEXT:  vpackuswb %zmm2, %zmm0, %zmm0
; CHECK-NEXT:  vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
}

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

define void @zext256() "min-legal-vector-width"="256" {
    ; VEC256-LABEL: 'zext256'
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    ;
    ; VEC512-LABEL: 'zext256'
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
define void @zext512() "min-legal-vector-width"="512" {
  %A = zext <8 x i16> undef to <8 x i64>
  %B = zext <8 x i32> undef to <8 x i64>
  %C = zext <16 x i8> undef to <16 x i32>
  %D = zext <16 x i16> undef to <16 x i32>
  %E = zext <32 x i8> undef to <32 x i16>
  ret void
}

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define void @sext256() "min-legal-vector-width"="256" {
    ; VEC256-LABEL: 'sext256'
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    ;
    ; VEC512-LABEL: 'sext256'
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    
    %A = sext <8 x i8> undef to <8 x i64>
    %B = sext <8 x i16> undef to <8 x i64>
    %C = sext <8 x i32> undef to <8 x i64>
    %D = sext <16 x i8> undef to <16 x i32>
    %E = sext <16 x i16> undef to <16 x i32>
    %F = sext <32 x i8> undef to <32 x i16>
    ret void
}
define void @sext512() "min-legal-vector-width"="512" {
  ; AVX-LABEL: 'sext512'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

  ; SKX256-LABEL: 'sext512'
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

  ; VEC512-LABEL: 'sext512'
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

  ; %A = sext <8 x i8> undef to <8 x i64>
  %B = sext <8 x i16> undef to <8 x i64>
  %C = sext <8 x i32> undef to <8 x i64>
  %D = sext <16 x i8> undef to <16 x i32>
  %E = sext <16 x i16> undef to <16 x i32>
  %F = sext <32 x i8> undef to <32 x i16>
  ret void
}
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*/
; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

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

target triple = "hexagon"

%struct.0 = type [ i8*, i8, %union.anon.0 ]
%union.anon.0 = type [ i8* ]

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

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

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

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

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

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

sw.bb.i17: ; preds = %exit
  %0 = bitcast %struct.0* %lsr.iv to i32*
  %1 = load i32, i32* %0, align 4
  unreachable
Open Source Used In HyperFlex HX Data Platform 4.5(2d) 6782

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

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

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

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" } ; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

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

; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res
}
; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
  ; CHECK-LABEL: test_sitofp_fixed_shortish:

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

  ; CHECK: ret
  %flt = sitofp <4 x i64> %in to <4 x double>
  %res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
  ret <4 x double> %res
}
; RUN: opt %s -inline -S | FileCheck %s

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

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

define internal void @innerNoAttribute() {
  ret void
}

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

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

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

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

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = [ "min-legal-vector-width"="512" ]
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OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

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

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

define void @foo_i16() {
    entry:
    %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
    %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
    %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
    %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
    %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
    store i8 %4, i8* inttoptr(i32 805873688 to i8*)
    store i8 %3, i8* inttoptr(i32 805873719 to i8*)
    store i8 %2, i8* inttoptr(i32 805873720 to i8*)
    store i8 %1, i8* inttoptr(i32 805873727 to i8*)
    store i8* inttoptr(i32 805874800 to i8*), i8** @goo
    ret void
}
define void @foo_i32() {
  entry:
  %0 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
  %1 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
  %2 = load volatile i32, i32* inttoptr (i32 805874720 to i32*), align 4
  %3 = load volatile i32, i32* inttoptr (i32 805874752 to i32*), align 4
  %4 = load volatile i32, i32* inttoptr (i32 805874774 to i32*), align 4
  ret void
}

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

; Define void @foo_i16() { entry:
%0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
%1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
%2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
%3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
%4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
%5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
ret void
}
define void @foo_i32() {
  entry:
  %0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
  %1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
  %2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
  %3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
  %4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
  %5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
  ret void
}
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LLVM System Interface Library

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

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

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res

; CHECK-BEGIN: TestSelect:
; CHECK      movaps 16(%rsp), %xmm1
; CHECK-NEXT  callq __subtf3
; CHECK-NEXT  testl %ebx, %ebx
; CHECK-NEXT  jg .LBB0_2
; CHECK-NEXT  # %bb.1:
; CHECK-NEXT  movaps .LCPI0_0(%rip), %xmm0
; CHECK-NEXT  .LBB0_2:
; CHECK-NEXT  addq $32, %rsp
; CHECK-NEXT  popq %rbx
; CHECK-NEXT  retq
}

define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res

; CHECK-BEGIN: TestFabs:
; CHECK      andps .LCPI1_0(%rip), %xmm0
; CHECK-NEXT  retq
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
  %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
  ret fp128 %res

; CHECK-BEGIN: TestCopysign:
; CHECK      andps .LCPI2_1(%rip), %xmm0
; CHECK-NEXT  orps %xmm1, %xmm0
; CHECK-NEXT  retq
}
define fp128 @TestFneg(fp128 %a) {
  %mul = fmul fp128 %a, %a
  %res = fsub fp128 0xL00000000000000008000000000000000, %mul
  ret fp128 %res
}

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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/AbstractMap.java
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  * /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/ImmutableCollection.java
  * /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/EmptyImmutableListMultimap.java
  * /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/HashBasedTable.java
  * /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/ImmutableSortedSet.java
  * /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/ImmutableMapValues.java
  * /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/thirdparty/publicsuffix/TrieParser.java
  * /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/ImmutableSortedSet.java
  * /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/escape/UnicodeEscaper.java
  * /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/ImmutableBiMap.java
  * /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/ImmutableMap.java
  * /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/Serialization.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/AbstractTable.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/FilteredMultimapValues.java

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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/util/concurrent/Monitor.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/annotations/Beta.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/base/Strings.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/primitives/package-info.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/annotations/package-info.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/ForwardingListMultimap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/RowSortedTable.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/AbstractSequentialIterator.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/SortedMapDifference.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/ForwardingSetMultimap.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/base/Ascii.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/util/concurrent/Atomics.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/MinMaxPriorityQueue.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/UnmodifiableListIterator.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java

jar/com/google/common/hash/MessageDigestHashFunction.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/hash/Funnel.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/hash/AbstractStreamingHashFunction.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/hash/AbstractHasher.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/collection/BoundType.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/hash/HashCode.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/collection/EmptyImmutableSortedMultiset.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/hash/HashFunction.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/hash/PrimitiveSink.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/collection/RegularContiguousSet.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/collection/AbstractSortedMultiset.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/collection/TreeRangeSet.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/collection/Queues.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/hash/Murmur3_128HashFunction.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/hash/HashingOutputStream.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/collection/DescendingImmutableSortedMultiset.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/hash/HashingOutputStream.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/hash/BloomFilterStrategies.java

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* As of 2010/06/11, this method is identical to the (package private) hash
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*/

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  jar/com/google/common/util/concurrent/Striped.java
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  jar/com/google/common/hash/SipHashFunction.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
  jar/com/google/common/io/BaseEncoding.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
  jar/com/google/common/collection/CartesianList.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
  jar/com/google/common/collection/ImmutableRangeSet.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
  jar/com/google/common/collection/FilteredKeyMultimap.java
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  jar/com/google/common/collect/SortedMultisets.java
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1.690 logback-core 1.1.2

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

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

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

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@heading TERMS AND CONDITIONS

@enumerate 0
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6b.

@item
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@end smallexample

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interface definition files, plus the scripts used to control compilation
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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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That's all there is to it!
DRuntime: Runtime Library for the D Programming Language
=====================================================================

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Version 3.1, 31 March 2009

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A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

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1.696 ezxml 0.8.6

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1.697 jsonmerge 1.1.0

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1.699 python-pam 0.4.2-13.2ubuntu2

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1.704 zlib 1.2.8

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* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
  its {@link ChannelPipeline}.  
* <h3>Sub-types</h3>
* <p>
* { {@link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its
subtypes:
* <ul>
* <li> { {@link ChannelInboundHandler} to handle inbound I/O events, and</li>
* <li> { {@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
* </ul>
* </p>
* <p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
* <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
* <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>
* </p>
* For more information, please refer to the documentation of each subtype.
* </p>
* 
* <h3>The context object</h3>
* 
* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext} object. A {@link ChannelHandler} is supposed to interact with the
* {@link ChannelPipeline} it belongs to via a context object. Using the
* context object, the {@link ChannelHandler} can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* using {@link AttributeKey}s which is specific to the handler.
* 
* <h3>State management</h3>
* 
* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* 
* public interface Message {
*   // your methods here
* }
* 
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}<Message> {
*   
*   private boolean loggedIn;
*   
*   [@code @Override]
*   public void channelRead0({@link ChannelHandlerContext} ctx, Message message) {
*     if (message instanceof LoginMessage) {
*       authenticate((LoginMessage) message);
*       loggedIn = true;
*     } else (message instanceof GetDataMessage) {
*       if (@b>loggedIn</b>) {
*         ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*       } else {
*         fail();
*       }
*     }
*     ...
*   }
* </pre>
* Because the handler instance has a state variable which is dedicated to
one connection, you have to create a new handler instance for each new channel to avoid a race condition where a unauthenticated client can get the confidential information:

* // Create a new handler instance per channel.
* // See {link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends {link ChannelInitializer&lt;Channel&gt;} {
*  {code @Override}
*  public void initChannel({link Channel} channel) {
*     channel.pipeline().addLast("handler", <pre>new DataServerHandler()</pre>);  
*  }
* }
* </pre>

<h4>Using {link AttributeKey}s</h4>

* Although it's recommended to use member variables to store the state of a handler, for some reason you might not want to create many handler instances.
* In such a case, you can use {link AttributeKey}s which is provided by {link ChannelHandlerContext}:

* public interface Message {
*  // your methods here
* }
* </pre>

* public class DataServerHandler extends {link SimpleChannelInboundHandler&lt;Message&gt;} {
*  private final {link AttributeKey&lt;Boolean&gt;} auth = {link AttributeKey#valueOf(String) AttributeKey.valueOf("auth");
*  }
*  {code @Override}
*  public void channelRead({link ChannelHandlerContext} ctx, Message message) {
*     {link Attribute&lt;Boolean&gt;} attr = ctx.attr(auth);
*     if (message instanceof LoginMessage) {
*         authenticate((LoginMessage) o);
*         attr.set(true);
*     } else (message instanceof GetDataMessage) {
*         if (<pre>Boolean.TRUE.equals(attr.get())</pre>) {
*             ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*         } else {
*             fail();
*         }
*     }
* }
* </pre>
* Now that the state of the handler is attached to the [@link ChannelHandlerContext], you can add the
* same handler instance to different pipelines:
*<pre>
* public class DataServerInitializer extends [@link ChannelInitializer]&lt;[@link Channel]&gt; {
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*     <b>@code @Override</b>
*     public void initChannel([@link Channel] channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }
* </pre>

* <h4>The [@code @Sharable] annotation</h4>
* In the example above which used an [@link AttributeKey],
* you might have noticed the [@code @Sharable] annotation.
*<p>
* If a [@link ChannelHandler] is annotated with the [@code @Sharable] annotation, it means you can create an instance of the handler just once and
* add it to one or more [@link ChannelPipeline]s multiple times without
* a race condition.
*<p>
* If this annotation is not specified, you have to create a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
*<p>
* This annotation is provided for documentation purpose, just like
*<p>
* <h3>Additional resources worth reading</h3>
*<p>
* Please refer to the [@link ChannelHandler], and
* [@link ChannelPipeline] to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
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* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/socket/ChannelOutputShutdownException.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/internal/ChannelUtils.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/PendingBytesTracker.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java

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  jar/io/netty/channel/socket/oio/OioSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
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  jar/io/netty/channel/socket/nio/NioSocketChannel.java
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  jar/io/netty/channel/local/package-info.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/ChannelPromiseNotifier.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/oio/package-info.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/DefaultChannelPipeline.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/socket/nio/NioDatagramChannel.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/AbstractServerChannel.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/ChannelOption.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/ChannelFutureListener.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/socket/package-info.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/local/package-info.java
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* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/ReflectiveChannelFactory.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/ChannelFactory.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/embedded/EmbeddedChannelId.java
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* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/SelectStrategy.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/SelectStrategyFactory.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/DefaultSelectStrategy.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/bootstrap/AbstractBootstrapConfig.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/PreferHeapByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/ChannelOutboundInvoker.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/socket/DuplexChannel.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/bootstrap/ServerBootstrapConfig.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/WriteBufferWaterMark.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/group/VoidChannelGroupFuture.java
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* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/EventLoopTaskQueueFactory.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/ExtendedClosedChannelException.java
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The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaxb-api
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1.721 ubuntu-keyring 2012.05.19

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.java.annotation.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }
}
public boolean inType() {
return true;
}
public boolean isInlineTag() {
return false;
}
public static void register(Map tagletMap) {
CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}
public String toString(Tag tag) {
return toString(new Tag[] { tag });
}
public String toString(Tag[] tags) {
if (tags.length == 0) {
return null;
}
else {
boolean haveValidTag = false;
for (int i = 0; i < tags.length && !haveValidTag; ++i) {
if (tags[i].text().length() > 0) {
haveValidTag = true;
}
}
if (haveValidTag) {
StringBuffer result = new StringBuffer();
result.append("<dl>");
for (int i = 0; i < tags.length; i++) {
if (tags[i].text().length() > 0) {
result.append("<dt><i>Copyright &#169; " + tags[i].text() + "</i></dt>");
}
}
result.append("</dl>");
return result.toString();
}
else {
return null;
}
}
}
}

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define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
class Permission;
class PermissionCollection;
}
}
}

class java::security::Permission : public ::java::lang::Object
{

public:
    Permission(::java::lang::String *);
    virtual void checkGuard(::java::lang::Object *);
    virtual jboolean implies(::java::security::Permission * ) = 0;
    virtual jboolean equals(::java::lang::Object * ) = 0;
}
virtual jint hashCode() = 0;
virtual ::java::lang::String * getName();
virtual ::java::lang::String * getActions() = 0;
virtual ::java::security::PermissionCollection * newPermissionCollection();
virtual ::java::lang::String * toString();
private:
    static const jlong serialVersionUID = -563657022231596674LL;
    ::java::lang::String * __attribute__((aligned(__alignof__(::java::lang::Object)))) name;
public:
    static ::java::lang::Class class$;
};
#endif // __java_security_Permission__
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
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@heading TERMS AND CONDITIONS

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@item
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@end smallexample

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

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@example
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end example

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@end man

/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 * *
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 * *
 * <p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 * *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 * @see Permissions
 * @see PermissionCollection
 * @since 1.1
 * @status updated to 1.4
public abstract class Permission implements Guard, Serializable
{

/**
 * Compatible with JDK 1.1+.
 */
private static final long serialVersionUID = -5636570222231596674L;

/**
 * This is the name assigned to this permission object.
 *
 * @serial the name of the permission
 */
private String name;

/**
 * Create an instance with the specified name.
 *
 * @param name the permission name
 */
public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the Guard interface for this class.
 * It calls the SecurityManager with this Permission as its argument. This method returns silently if the security check succeeds or throws an exception if it fails.
 *
 * @param obj the Object being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
    {
        sm.checkPermission(this);
    }

/**
 * This method tests whether this Permission implies that the specified Permission is also granted.
 *
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')'</code>.
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();
    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());

    if (!getActions().equals(""))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}
} // class Permission

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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
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permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
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facilities. This must be distributed under the terms of the
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b) Give prominent notice with the combined library of the fact
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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!
16/gnu/javax/sound/AudioSecurityManager$Permissionjava/lang/EnumPLAY1Lgnu/javax/sound/AudioSecurityManager$Permission;RECORDALLENUM$VALUES2[Lgnu/java/sound/AudioSecurityManager$Permission;<clinit >]VCode
GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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#!/usr/bin/python  
#  
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#  
# This script is free software; you can redistribute it and/or modify  
# it under the terms of the GNU General Public License as published by  
# the Free Software Foundation; either version 3, or (at your option)  
# any later version.  
#  
# This script adjusts the copyright notices at the top of source files  
# so that they have the form:  
#  
#   Copyright XXXX-YYYY Free Software Foundation, Inc.  
#  
# It doesn't change code that is known to be maintained elsewhere or  
# that carries a non-FSF copyright.  
#  
# The script also doesn't change testsuite files, except those in  
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,  
# while most tests in other directories are just things that failed at some  
# point in the past.  
#  
# Pass --this-year to the script if you want it to add the current year  
# to all applicable notices. Pass --quilt if you are using quilt and  
# want files to be added to the quilt before being changed.  
#  
# By default the script will update all directories for which the  
# output has been vetted. You can instead pass the names of individual  
# directories, including those that haven't been approved. So:  
#  
#   update-copyright.pl --this-year  
#  
# is the command that would be used at the beginning of a year to update  
# all copyright notices (and possibly at other times to check whether  
# new files have been added with old years). On the other hand:  
#  
#   update-copyright.pl --this-year libjava
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__ (self):
        self.num_errors = 0

    def report (self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write (string + '\n')
        self.num_errors += 1

    def ok (self):
        return self.num_errors == 0

class GenericFilter:
    def __init__ (self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set (['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
        ''])

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def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True
# Skip files produced by autogen
if (os.path.exists (base + '.def'))
    and os.path.exists (base + '.tpl')):
    return True

# Skip configure files produced by autoconf
if filename == 'configure':
    if os.path.exists (base + '.ac'):
        return True
    if os.path.exists (base + '.in'):
        return True

return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True

    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True

    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9][\-0-9,.\s]+[\s+and\s+]*[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '[\w,.\-]'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile ("\[Cc\]opyright\(\(C\)\)\)\)"
# 2: the years. Include the whitespace in the year, so that
# we can remove any excess.
'(\s*\(?\:' + ranges + '\.,?\)

# 3: 'by ', if used
'(by\s+)\?'

# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'(\+ name + '(\?\s? + name + ')\)\?)

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
                                      re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+;+|%+|//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ', '.
self.separator = ' '

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
    raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value '):
        return years

    (min_year, max_year) = self.year_range (years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)
def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != '':
            self.errors.report(pathname,
                               'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete(match):
            try:
                next_line = file.next()
            except StopIteration:
                break
            # If the next line doesn't look like a proper continuation,
            # assume that what we've got is complete.
            continuation = self.strip_continuation(next_line)
            if not self.continuation_re.match(continuation):
                break
            # Merge the lines for matching purposes.
            orig_line += next_line
            line = line.rstrip() + ' ' + continuation
            next_line = None

        # Rematch with the longer line, at the original position.
        match = self.copyright_re.match(line, match.start())
assert match

holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname,
        'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
        + canon_form
        + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
        + ('' if intro.startswith ('copyright = ') else ' ')
        + canon_form + self.separator
        + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)'
elif intro.endswith('c'):
    intro = intro[:-3] + 'C'
line = line[:match.start(1)] + intro + line[match.end(1):]

# Strip trailing whitespace
line = line.rstrip() + '
'
return (line != orig_line, line, next_line)

def process_file(self, dir, filename, filter):
    pathname = os.path.join(dir, filename)
    if filename.endswith('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove(pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter(dir, filename)
    with open(pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match(line)):
                    match = self.copyright_re.search(line)
                    if match:
                        res = self.update_copyright(dir, filename, filter,
                                                     file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
                    # Check for copyright lines that might have slipped by.
                    elif self.other_copyright_re.search(line):
                        self.errors.report(pathname,
                                           'unrecognised copyright: %s'
                                           % line.strip())
                        lines.append(line)
                        line = next_line

                # If something changed, write the new file out.
                if changed and self.errors.ok():
                    tmp_pathname = pathname + '.tmp'
                    with open(tmp_pathname, 'w') as file:
for line in lines:
file.write (line)
if self.use_quilt:
subprocess.call (['quilt', 'add', pathname])
os.rename (tmp_pathname, pathname)
def process_tree (self, tree, filter):
for (dir, subdirs, filenames) in os.walk (tree):
# Don't recurse through directories that should be skipped.
for i in xrange (len (subdirs) - 1, -1, -1):
if filter.skip_dir (dir, subdirs[i]):
del subdirs[i]
# Handle the files in this directory.
for filename in filenames:
if filter.skip_file (dir, filename):
sys.stdout.write ('Skipping %s\n'
% os.path.join (dir, filename))
else:
self.process_file (dir, filename, filter)
class CmdLine:
def __init__ (self, copyright = Copyright):
self.errors = Errors()
self.copyright = copyright (self.errors)
self.dirs = []
self.default_dirs = []
self.chosen_dirs = []
self.option_handlers = dict()
self.option_help = []
self.add_option ('--help', 'Print this help', self.o_help)
self.add_option ('--quilt', '"quilt add" files before changing them',
self.o_quilt)
self.add_option ('--this-year', 'Add the current year to every notice',
self.o_this_year)
def add_option (self, name, help, handler):
self.option_help.append ((name, help))
self.option_handlers[name] = handler
def add_dir (self, dir, filter = GenericFilter()):
self.dirs.append ((dir, filter))
def o_help (self, option = None):
sys.stdout.write ('Usage: %s [options] dir1 dir2...\n\n'
'Options:\n' % sys.argv[0])
format = '%-15s %s\n'

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for (what, help) in self.option_help:
    sys.stdout.write(self.option_help % (what, help))
sys.stdout.write('

Directories:
')
format = '%-25s'
i = 0
for (dir, filter) in self.dirs:
    i += 1
    if i % 3 == 0 or i == len(self.dirs):
        sys.stdout.write(dir + '\n')
    else:
        sys.stdout.write(format % dir)
sys.exit(0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
if self.errors.ok():
    if len (self.chosen_dirs) == 0:
        self.chosen_dirs = self.default_dirs
    if len (self.chosen_dirs) == 0:
        self.o_help()
    else:
        for chosen_dir in self.chosen_dirs:
            canon_dir = os.path.join (chosen_dir, '')
count = 0
    for (dir, filter) in self.dirs:
        if (dir + os.sep).startswith (canon_dir):
            count += 1
            self.copyright.process_tree (dir, filter)
    if count == 0:
        self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
sys.exit (0 if self.errors.ok() else 1)

#---------------------------------------------------------------
class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
            # Not part of GCC
            'math-68881.h',
        ])

        self.skip_dirs |= set ([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ])

        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

        self.fossilised_files |= set ([
            # Old news won't be updated.
            'ONEWS',
        ])

class TestsuiteFilter (GenericFilter):
def __init__(self):
    GenericFilter.__init__(self)

    self.skip_extensions |= set([
        # Don't change the tests, which could be woend by anyone.
        '.c',
        '.C',
        '.cc',
        '.h',
        '.hs',
        '.f',
        '.f90',
        '.go',
        '.inc',
        '.java',
    ])

def skip_file(self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename(dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
self.skip_dirs |= set (
    # Handled separately.
    'testsuite',

    # Not really part of the library
    'contrib',

    # Imported from upstream
    'classpath',
    'libltdl',
)

def get_line_filter (self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile ('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile ('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (
            # Handled separately.
            'testsuite',
        )


class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set (
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        )

        self.skip_dirs |= set (
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        )
self.own_files |= set([
    # Contains markup around the copyright owner.
    'spine.xml',
    ])

def get_line_filter(self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile('// C Copyright Jeremy Siek')
    return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright(Copyright):
def __init__(self, errors):
    Copyright.__init__(self, errors)
    canon_fsf = 'Free Software Foundation, Inc.'
    self.add_package_author('Free Software Foundation', canon_fsf)
    self.add_package_author('Free Software Foundation.', canon_fsf)
    self.add_package_author('Free Software Foundation Inc.', canon_fsf)
    self.add_package_author('Free Software Foundation, Inc', canon_fsf)
    self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
    self.add_package_author('The Free Software Foundation', canon_fsf)
    self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
    self.add_package_author('Software Foundation, Inc.', canon_fsf)

    self.add_external_author('ARM')
    self.add_external_author('AdaCore')
    self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
    self.add_external_author('Cavium Networks.')
    self.add_external_author('Faraday Technology Corp.')
    self.add_external_author('Florida State University')
    self.add_external_author('Greg Colvin and Beman Dawes.')
    self.add_external_author('Hewlett-Packard Company')
    self.add_external_author('Information Technology Industry Council.')
    self.add_external_author('James Theiler, Brian Gough')
    self.add_external_author('Makoto Matsumoto and Takuji Nishimura')
    self.add_external_author('National Research Council of Canada')
    self.add_external_author('NVIDIA Corporation')
    self.add_external_author('Peter Dimov and Multi Media Ltd.')
    self.add_external_author('Peter Dimov')
    self.add_external_author('Pipeline Associates, Inc.')
    self.add_external_author('Regents of the University of California')
    self.add_external_author('Silicon Graphics Computer Systems, Inc.')
    self.add_external_author('Silicon Graphics')
    self.add_external_author('Stephen L. Moshier')
    self.add_external_author('Sun Microsystems, Inc. All rights reserved.')
    self.add_external_author('The Go Authors. All rights reserved.')
    self.add_external_author('The Go Authors. All rights reserved.')
self.add_external_author('The Go Authors.')
self.add_external_author('The Regents of the University of California.')
self.add_external_author('Unicode, Inc.')
self.add_external_author('University of Toronto.')

class GCCCmdLine(CmdLine):
def __init__(self):
    CmdLine.__init__(self, GCCCopyright)

    self.add_dir('..', TopLevelFilter())
    # boehm-gc is imported from upstream.
    self.add_dir('config', ConfigFilter())
    # contrib isn't really part of GCC.
    self.add_dir('fixincludes')
    self.add_dir('gcc', GCCFilter())
    self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
    self.add_dir('gnattools')
    self.add_dir('include')
    self.add_dir('libada')
    self.add_dir('libatomic')
    self.add_dir('libbacktrace')
    self.add_dir('libcpp', LibCppFilter())
    self.add_dir('libdecmumber')
    # libffi is imported from upstream.
    self.add_dir('libgcc', LibGCCFilter())
    self.add_dir('libgfortran')
    self.add_dir('libgomp')
    self.add_dir('libiberty')
    self.add_dir('libitm')
    self.add_dir('libjava', LibJavaFilter())
    self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
    self.add_dir('libmudflap', LibMudflapFilter())
    self.add_dir(os.path.join('libmudflap', 'testsuite'), TestsuiteFilter())
    self.add_dir('libobjc')
    self.add_dir('libquadmath')
    # libsanitiser is imported from upstream.
    self.add_dir('libssp')
    self.add_dir('libstdc++-v3', LibStdCxxFilter())
    self.add_dir('libvtv')
    self.add_dir('lto-plugin')
    # zlib is imported from upstream.

    self.default_dirs = [
        'gcc',
        'libada',
        'libatomic',
        'libbacktrace',
    ]
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GCCCmdLine().main()
If+gnu/classpath/tools/taglets/CopyrightTagletjava/lang/Objectcom/sun/tools/doclets/TagletNAMELjava/lang/Strin
g;
ConstantValuecopyrightHEADER
Copyright:<init>()VCode
LineNumberTableLocalVariableTablethis-
Lgnu/classpath/tools/taglets/CopyrightTaglet;getName()Ljava/lang/String;inField()Z
inConstructorinMethod
inOverviewwinPackageinTypeisInlineTagregister(Ljava/util/Map;)V

&(*)
java/util/Map+.put8(Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Object;
tagletMapLjava/util/Map;copyrightTaglettoString(Ljava/lang/Object;)Ljava/lang/String;
tagLcom/sun/javadoc/Tag;toString()Ljava/lang/String;tagLcom/sun/javadoc/Tag;2:;text
=?>java/lang/String@Alength()ICjava/lang/StringBuffer
BF&lt;d&gt;
BHIJappend,(Ljava/lang/String;Ljava/lang/StringBuffer;Ljava/lang/StringBuilderN&lt;d&gt;&lt;i&gt;Copyright &amp;#169;
KPQ(Ljava/lang/String;)V
KSIIT-(Ljava/lang/String;)Ljava/lang/StringBuilder;V&lt;i&gt;&lt;/d&gt;
KX0Z&lt;/d&gt;
BXtags[Lcom/sun/javadoc/Tag;isValidTagZilresultLjava/lang/StringBuffer;
SourceFileCopyrightTaglet.java!

/*1-
7.:.?C,G.K,O!,S"#QYSL*+%+WWXY-. 
/01A
*2Y+S4\n
7806)+=>+29<=+_BYDN-EGW67+29<-%-KYMO+29RURWG+-+YW-[-F`adefg+k/l7m>nDoSpunstw\]^[_ `a7TbcA>`ade
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<table>
<thead>
<tr>
<th>Program</th>
<th>Directory</th>
</tr>
</thead>
<tbody>
<tr>
<td>mach_override</td>
<td>lib/interception/mach_override</td>
</tr>
<tr>
<td>@node Library Copying</td>
<td>@appendixsec GNU LESSER GENERAL PUBLIC LICENSE</td>
</tr>
<tr>
<td>@cindex LGPL, Lesser General Public License</td>
<td></td>
</tr>
<tr>
<td>@center Version 2.1, February 1999</td>
<td></td>
</tr>
</tbody>
</table>
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in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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```java
ConstantValue(WQ~name(java/lang/String;<init>(Ljava/lang/String;)V
)LineNumberTableLocalVariableTablethis(java/security/Permission;
checkGuard(java/lang/Object;)V
%! java/lang/System"#getSecurityManager()Ljava/lang/SecurityManager;
"%&java/lang/SecurityManager()checkPermission(Ljava/security/Permission;)V
objcjava/lang/Object;smjava/lang/SecurityManager;implies(Ljava/security/Permission;)Z
zequals(Ljava/lang/Object;)Z
zhHashCode()Iljava/lang/String;
getActionsnewPermissionCollection&()Ljava/security/PermissionCollection;toString-gnu/java/lang/CPStringBuilder;
.:?>%@append"(C)Lgnu/java/lang/CPStringBuilder;
BCDgetClass()Ljava/lang/Class;
FHGjava/lang/Class45
:J?K3(Ljava/lang/String;):Lgnu/java/lang/CPStringBuilder;
H
N65P
RTSjava/lang/String01
:V95stringLgnu/java/lang/CPStringBuilder;
SourceFilePermission.java!
F
**+[\]^

XM.,*$nop
q **+

// DO NOT EDIT THIS FILE - it is machine generated -.*- c++ .*-  

#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
 namespace java
 {
  namespace security
  {

```
namespace acl
{
    class Permission;
}
}
}

class java::security::acl::Permission : public ::java::lang::Object
{

public:
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual ::java::lang::String * toString() = 0;
    static ::java::lang::Class class$;
} __attribute__ ((java_interface));
#endif // __java_security_acl_Permission__
This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
README.changes.

HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
 underscores, we are using prefix `.'s to identify labels that should
 be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t"  /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */
/ * This is how to output an assembler line 
 that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  
fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line 
 to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
( fputs (".comm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line 
 to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
( fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifndef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
( fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line 
 that says to advance the location counter 
 to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)	
if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF 
 the symbol_ref name of an internal numbered label where 
 PREFIX is the class of label and NUM is the number within the class. 
 This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)	
sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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/**
* This interface provides information about a permission that can be
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* <code>java.security.Permission</code>.
*
* @version 0.0
*
* @author Aaron M. Renn (arenn@urbanophile.com)
* /
public interface Permission
{

/**
 * This method tests whether or not a specified <code>Permission</code>
 * (passed as an <code>Object</code>) is the same as this permission.
 * 
 * @param perm The permission to check for equality
 * 
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
 */
boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>
 * as a <code>String</code>.  
 * 
 * @return A <code>String</code> representing this permission.
 */
String toString();
}

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#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface
#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
  namespace gnu
  {
    namespace javax
    {
      namespace sound
      {
        class AudioSecurityManager$Permission;
      }
    }
  }
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{
  AudioSecurityManager$Permission(::java::lang::String *, jint);
  public:
  static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
  static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
  static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
  static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
  static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
  private:
  static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
  public:
  static ::java::lang::Class class$;
};

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__

1.726 lcms 2.6 3ubuntu2.1

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The gzip module uses the zlib license (see src/gzip/zlib.h) which too is compatible to the above two licenses.

The MD5 checksum support (only used for debugging in development builds) is in the public domain.

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* /opt/cola/permits/1258120993_1643033058.08/0/jnr-constants-0-8-6-sources-jar/jnr/constants/platform/ConstantResolver.java

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1.752 websocket-server 0.4

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Metadata-Version: 1.0
Name: websocket-server
Version: 0.4
Summary: A simple fully working websocket-server in Python with no external dependencies
Home-page: https://github.com/Pithikos/python-websocket-server
Author: Johan Hanssen Seferidis
Author-email: manossef@gmail.com
License: MIT
Description: UNKNOWN
Platform: any

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Metadata-Version: 1.0
Name: websocket_server
Version: 0.4
Summary: A simple fully working websocket-server in Python with no external dependencies
Home-page: https://github.com/Pithikos/python-websocket-server
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1.753 netty-transport-native-epoll 4.1.47.Final
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 */
/**
 * Set the `{@code TCP_MD5SIG}` option on the socket. See `{@code linux/tcp.h}` for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */

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  jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java`
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 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
*/
/**
 * Set the {@code TCP_QUICKACK} option on the socket. See <a href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
 * for more details.
*/

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jar/com/sun/xml/bind/v2/model/core/Adapter.java
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* /opt/cola/permits/1334904536_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/core/ID.java

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Found in path(s):
/opt/cola/permits/1334904536_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/util/XmlFactory.java

1.755 fribidi 0.19.7

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Version 2.1, February 1999

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1.756 ndg-httpsclient 0.4.0-3

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# MANIFEST.in file to enable inclusion of unit test data files and config
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# NDG HTTPS Client Package
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# P J Kershaw 17/01/12
#  
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recursive-include ndg/httpsclient/test *.crt *.key *.sh README
recursive-include documentation Makefile

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Metadata-Version: 1.1
Name: ndg-httpsclient
Version: 0.4.0
Summary: Provides enhanced HTTPS support for httplib and urllib2 using PyOpenSSL
Home-page: https://github.com/cedadev/ndg_httpsclient/
Author: Richard Wilkinson and Philip Kershaw
Author-email: Philip.Kershaw@stfc.ac.uk
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Description:
This is a HTTPS client implementation for httplib and urllib2 based on
PyOpenSSL. PyOpenSSL provides a more fully featured SSL implementation over the
default provided with Python and importantly enables full verification of the
SSL peer.

Releases
========

0.4.0
-----
* Made dual compatible with Python 2 / 3.

0.3.3
-----
* Fix to add in AnotherName for `subjectAltNames` field - added for support for CACert issued
certs (thanks to Gu1).
* Fix to HTTP Basic Auth option for `ndg.httpsclient.utils.main`
* Fix to `ServerSSLCertVerification` so that it can pass a function-based callback instead of using
`__call__`. In newer versions of OpenSSL (>= 0.14) the latter failed because of a request for `__name__`
attribute.

0.3.2
-----
* Fix to SubjectAltNames support check - should only be enabled if pyasn1 is
installed.
* Fix to open_url: HTTP Request object was being created inside if headers is
None block - now corrected to create regardless.
* Added http basic auth support to script. (Thanks to Willem van Engen)

0.3.1
-----
* extended utils functions to support keyword for passing additional urllib2
handlers.

0.3.0
-----
* Added ndg.httpsclient.utils.fetch_stream_from_url function and added
parameter for data to post in open_url and fetch_* methods.
* fix to ndg.httpsclient.utils module _should_use_proxy and open_url functions

0.2.0
-----
* added support for SSL verification with subjectAltNames using pyasn1
* fixed minor bug - SSL cert DN prefix matching

0.1.0
Initial release

Prerequisites

This has been developed and tested for Python 2.6 and 2.7 with pyOpenSSL 0.13 and 0.14. Version 0.4.0 tested with pyOpenSSL 0.15.1 and Python 2.7 and 3.4. Note that proxy support is only available from Python 2.6.2 onwards. pyasn1 is required for correct SSL verification with subjectAltNames.

Installation

Installation can be performed using easy_install or pip.

Running ndg_httpclient

A simple script for fetching data using HTTP or HTTPS GET from a specified URL.

Parameter:

``url``
The URL of the resource to be fetched

Options:

``-h, --help``
Show help message and exit.

``-c FILE, --certificate=FILE``
Certificate file - defaults to ``$HOME/credentials.pem``

``-k FILE, --private-key=FILE``
Private key file - defaults to the certificate file

``-t DIR, --ca-certificate-dir=DIR``
Trusted CA certificate file directory.

``-d, --debug``
Print debug information - this may be useful in solving problems with HTTP or HTTPS access to a server.

``-p FILE, --post-data-file=FILE``
POST data file

``-f FILE, --fetch=FILE``
Output file

``-n, --no-verify-peer``
Skip verification of peer certificate.

Platform: UNKNOWN
Classifier: Development Status :: 3 - Alpha
Classifier: Environment :: Console
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: End Users/Desktop
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: System Administrators
Classifier: Intended Audience :: Science/Research
Classifier: License :: OSI Approved :: BSD License
Classifier: Natural Language :: English
Classifier: Operating System :: Microsoft :: Windows
Classifier: Operating System :: POSIX :: Linux
Classifier: Programming Language :: Python
Classifier: Topic :: Security
Classifier: Topic :: Internet
Classifier: Topic :: Scientific/Engineering
Classifier: Topic :: System :: Distributed Computing
Classifier: Topic :: System :: Systems Administration :: Authentication/Directory
Classifier: Topic :: Software Development :: Libraries :: Python Modules

Found in path(s):
* /opt/cola/permits/1141637284_1615091299.87/0/ndg-httpsclient-0-4-0-orig-1-tar-gz/ndg_httpsclient-0.4.0/ndg_httpsclient.egg-info/PKG-INFO
No license file was found, but licenses were detected in source scan.

try:
    from setuptools import setup, find_packages
except ImportError:
    from ez_setup import use_setuptools
    use_setuptools()
    from setuptools import setup, find_packages

_long_description = ""
This is a HTTPS client implementation for httplib and urllib2 based on
PyOpenSSL. PyOpenSSL provides a more fully featured SSL implementation over the
default provided with Python and importantly enables full verification of the
SSL peer.

Releases
========
0.4.0
-----
* Made dual compatible with Python 2 / 3.

0.3.3
-----
* Fix to add in AnotherName for `"subjectAltNames` field - added for support for CACert issued certs (thanks to Gu1).

* Fix to HTTP Basic Auth option for `"ndg.httpsclient.utils.main`.

* Fix to `ServerSSLCertVerification` so that it can pass a function-based callback instead of using `__call__`. In newer versions of OpenSSL (>= 0.14) the latter failed because of a request for `__name__` attribute.

0.3.2
-----

* Fix to SubjectAltNames support check - should only be enabled if pyasn1 is installed.

* Fix to open_url: HTTP Request object was being created inside if headers is None block - now corrected to create regardless.

* Added http basic auth support to script. (Thanks to Willem van Engen)

0.3.1
-----

* extended utils functions to support keyword for passing additional urllib2 handlers.

0.3.0
-----

* Added ndg.httpsclient.utils.fetch_stream_from_url function and added parameter for data to post in open_url and fetch_* methods.

* fix to ndg.httpsclient.utils module _should_use_proxy and open_url functions

0.2.0
-----

* added support for SSL verification with subjectAltNames using pyasn1

* fixed minor bug - SSL cert DN prefix matching

0.1.0
-----

Initial release

Prerequisites
-------------
This has been developed and tested for Python 2.6 and 2.7 with pyOpenSSL 0.13 and 0.14. Version 0.4.0 tested with pyOpenSSL 0.15.1 and Python 2.7 and 3.4. Note that proxy support is only available from Python 2.6.2 onwards. pyasn1 is required for correct SSL verification with subjectAltNames.

Installation
-------------
Installation can be performed using easy_install or pip.

Running ndg_httpclient
----------------------
A simple script for fetching data using HTTP or HTTPS GET from a specified URL.
Parameter:

``url``
The URL of the resource to be fetched

Options:

``-h, --help``
Show help message and exit.

``-c FILE, --certificate=FILE``
Certificate file - defaults to ``$HOME/credentials.pem``

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Private key file - defaults to the certificate file

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``-p FILE, --post-data-file=FILE``
POST data file

``-f FILE, --fetch=FILE``
Output file

``-n, --no-verify-peer``
Skip verification of peer certificate.

```python
setup(
    name='ndg_httpsclient',
    version="0.4.0",
    description='Provides enhanced HTTPS support for httplib and urllib2 using ' +
               'PyOpenSSL',
    author='Richard Wilkinson and Philip Kershaw',
    author_email='Philip.Kershaw@stfc.ac.uk',
    url='https://github.com/cedadev/ndg_httpsclient/',
    long_description=long_description,
    license='BSD - See LICENCE file for details',
    namespace_packages=['ndg'],
    packages=find_packages(),
    package_dir={'ndg.httpsclient': 'ndg/httpsclient'},
    package_data={
```
'ndg.httpsclient': [  
'test/README',  
'test/scripts/*_sh',  
'test/pki/localhost.*',  
'test/pki/ca/*_0'  
],

},

install_requires = ['PyOpenSSL'],
extras_require = {'subjectAltName_support': 'pyasn1'},
classifiers = [
    'Development Status :: 3 - Alpha',
    'Environment :: Console',
    'Environment :: Web Environment',
    'Intended Audience :: End Users/Desktop',
    'Intended Audience :: Developers',
    'Intended Audience :: System Administrators',
    'Intended Audience :: Science/Research',
    'License :: OSI Approved :: BSD License',
    'Natural Language :: English',
    'Operating System :: Microsoft :: Windows',
    'Operating System :: POSIX :: Linux',
    'Programming Language :: Python',
    'Topic :: Security',
    'Topic :: Internet',
    'Topic :: Scientific/Engineering',
    'Topic :: System :: Distributed Computing',
    'Topic :: System :: Systems Administration :: Authentication/Directory',
    'Topic :: Software Development :: Libraries :: Python Modules'
],
zip_safe = False,
entry_points = {
    'console_scripts': ['ndg_httpclient = ndg.httpsclient.utils:main',
    ],
}

)

Found in path(s):
* /opt/cola/permits/1141637284_1615091299.87/0/ndg-httpsclient-0.4.0-orig-1-tar-gz/ndg_httpsclient-
0.4.0/setup.py
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1
Name: ndg_httpclient
Version: 0.4.0
Summary: Provides enhanced HTTPS support for httplib and urllib2 using PyOpenSSL
Home-page: https://github.com/cedadev/ndg_httpsclient/
Author: Richard Wilkinson and Philip Kershaw
Author-email: Philip.Kershaw@stfc.ac.uk
License: BSD - See LICENCE file for details

Description:
This is a HTTPS client implementation for httplib and urllib2 based on PyOpenSSL. PyOpenSSL provides a more fully featured SSL implementation over the default provided with Python and importantly enables full verification of the SSL peer.

Releases
========

0.4.0
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* Made dual compatible with Python 2 / 3.

0.3.3
-----
* Fix to add in AnotherName for `subjectAltNames` field - added for support for CACert issued certs (thanks to Gu1).
* Fix to HTTP Basic Auth option for `ndg.httpsclient.utils.main`
* Fix to `ServerSSLCertVerification` so that it can pass a function-based callback instead of using `__call__`. In newer versions of OpenSSL (>= 0.14) the latter failed because of a request for `__name__` attribute.

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-----
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* Fix to open_url: HTTP Request object was being created inside if headers is None block - now corrected to create regardless.
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-----
* extended utils functions to support keyword for passing additional urllib2 handlers.

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-----
* Added ndg.httpsclient.utils.fetch_stream_from_url function and added parameter for data to post in open_url and fetch_* methods.
* fix to ndg.httpsclient.utils module _should_use_proxy and open_url functions

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-----
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0.1.0
-----
Initial release

Prerequisites

This has been developed and tested for Python 2.6 and 2.7 with pyOpenSSL 0.13 and 0.14. Version 0.4.0 tested with pyOpenSSL 0.15.1 and Python 2.7 and 3.4. Note that proxy support is only available from Python 2.6.2 onwards. pyasn1 is required for correct SSL verification with subjectAltNames.

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``-n, --no-verify-peer``
Skip verification of peer certificate.
Platform: UNKNOWN
Classifier: Development Status :: 3 - Alpha
Classifier: Environment :: Console
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: End Users/Desktop
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: System Administrators
Classifier: Intended Audience :: Science/Research
Classifier: License :: OSI Approved :: BSD License
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Classifier: Operating System :: POSIX :: Linux
Classifier: Programming Language :: Python
Classifier: Topic :: Security
Classifier: Topic :: Internet
Classifier: Topic :: Scientific/Engineering
Classifier: Topic :: System :: Distributed Computing
Classifier: Topic :: System :: Systems Administration :: Authentication/Directory
Classifier: Topic :: Software Development :: Libraries :: Python Modules

Found in path(s):
* /opt/cola/permits/1141637284_1615091299.87/0/ndg-httpsclient-0.4.0-orig-1-tar-gz/ndg_httpsclient-0.4.0/PKG-INFO
No license file was found, but licenses were detected in source scan.

# @license: BSD - see LICENSE file for details

Found in path(s):
* /opt/cola/permits/1141637284_1615091299.87/0/ndg-httpsclient-0.4.0-orig-1-tar-gz/ndg_httpsclient-0.4.0/documentation/Makefile

1.757 aopalliance-repackaged 2.4.0-b34

1.758 importlib-metadata 2.0.0
1.758.1 Available under license:
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1.759 lz4 0.0~r131-2ubuntu2

1.759.1 Available under license :
Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: lz4
Source: https://github.com/Cyan4973/lz4

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Files: ./examples/blockStreaming_lineByLine.c
./examples/blockStreaming_doubleBuffer.c:
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./examples/blockStreaming_ringBuffer.c
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1.760 ip-address 1.0.22

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1.761 libesmtp 1.0.6-4

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It was downloaded from http://www.stafford.uklinux.net/libesmtp/

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Version 2.1, February 1999

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1.766 spring-security-crypto 3.2.5.RELEASE

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 */

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* /opt/cola/permits/1144928715_1620110723.51/0/spring-security-crypto-3-2-5-release-sources-3-jar/org/springframework/security/crypto/encrypt/TextEncryptor.java
* /opt/cola/permits/1144928715_1620110723.51/0/spring-security-crypto-3-2-5-release-sources-3-jar/org/springframework/security/crypto/keygen/BytesKeyGenerator.java
* /opt/cola/permits/1144928715_1620110723.51/0/spring-security-crypto-3-2-5-release-sources-3-jar/org/springframework/security/crypto/encrypt/BytesEncryptor.java
* /opt/cola/permits/1144928715_1620110723.51/0/spring-security-crypto-3-2-5-release-sources-3-jar/org/springframework/security/crypto/encrypt/Encryptors.java
* /opt/cola/permits/1144928715_1620110723.51/0/spring-security-crypto-3-2-5-release-sources-3-jar/org/springframework/security/crypto/keygen/SharedKeyGenerator.java
* /opt/cola/permits/1144928715_1620110723.51/0/spring-security-crypto-3-2-5-release-sources-3-jar/org/springframework/security/crypto/password/Digester.java
* /opt/cola/permits/1144928715_1620110723.51/0/spring-security-crypto-3-2-5-release-sources-3-jar/org/springframework/security/crypto/encrypt/HexEncodingTextEncryptor.java
* /opt/cola/permits/1144928715_1620110723.51/0/spring-security-crypto-3-2-5-release-sources-3-jar/org/springframework/security/crypto/keygen/SecureRandomBytesKeyGenerator.java
* /opt/cola/permits/1144928715_1620110723.51/0/spring-security-crypto-3-2-5-release-sources-3-jar/org/springframework/security/crypto/password/NoOpPasswordEncoder.java
* /opt/cola/permits/1144928715_1620110723.51/0/spring-security-crypto-3-2-5-release-sources-3-jar/org/springframework/security/crypto/util/EncodingUtils.java
* /opt/cola/permits/1144928715_1620110723.51/0/spring-security-crypto-3-2-5-release-sources-3-jar/org/springframework/security/crypto/keygen/SecureRandomBytesKeyGenerator.java
* /opt/cola/permits/1144928715_1620110723.51/0/spring-security-crypto-3-2-5-release-sources-3-jar/org/springframework/security/crypto/password/StandardPasswordEncoder.java
* /opt/cola/permits/1144928715_1620110723.51/0/spring-security-crypto-3-2-5-release-sources-3-jar/org/springframework/security/crypto/keygen/KeyGenerators.java
* /opt/cola/permits/1144928715_1620110723.51/0/spring-security-crypto-3-2-5-release-sources-3-
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Found in path(s):
* /opt/cola/permits/1144928715_1620110723.51/0/spring-security-crypto-3-2-5-release-sources-3-
jar/org/springframework/security/crypto/bcrypt/BCrypt.java

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1.770 go 1.6.4

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
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It is currently developed by a community of developers, as well as supported
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### 1.793 ieee-data 20150531.1

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1.795 prompt-toolkit 2.0.10

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1.796 python-pyasn1-modules 0.0.7-0.1

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1.798 icu 55.1-7ubuntu0.5

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## -*-makefile-*-##

## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

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

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

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

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

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

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

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

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '"$(GEN_DEPS.c) $< \n| sed "s/(.*)\.o:/:ld $2 $1.o:/:g" > $@; \n[ -s $@ ] || rm -f $@"

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '"$(GEN_DEPS.cc) $< \n| sed "s/(.*)\.o:/:ld $2 $1.o:/:g" > $@; \n[ -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) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbic

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

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

1.799 sharutils 4.15.2-1

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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.

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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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1.801 cryptsetup 1.6.6 5ubuntu2

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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If
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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:

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1.803 libtext-charwidth-perl 0.04-7build5

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Version 2.1, February 1999

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If
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Thus, it is not the intent of this section to claim rights or contest
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In addition, mere aggregation of another work not based on the Library
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    If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
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6. As an exception to the Sections above, you may also combine or
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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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lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
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_inquire_context.c
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- kadmin/server/ipropd_svc.c
- lib/kdb/iprop.x
- lib/kdb/kdb_convert.c
- lib/kdb/kdb_log.c
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* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-jar/javax/activation/DataSource.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-jar/javax/activation/ActivationDataFlavor.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-jar/javax/activation/FileTypeMap.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-jar/javactivation/MailcapCommandMap.java
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfff2bb5b6.

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

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

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<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="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>

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  <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:for-each>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
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- Strongtalk assembler, the basis of the files assembler-arm-inl.h, assembler-arm.cc, assembler-arm.h, assembler-ia32-inl.h, assembler-ia32.cc, assembler-ia32.h, assembler-x64-inl.h, assembler-x64.cc, assembler-x64.h, assembler-mips-inl.h, assembler-mips.cc, assembler-mips.h, assembler.cc and assembler.h. This code is copyrighted by Sun Microsystems Inc. and released under a 3-clause BSD license.

- Valgrind client API header, located at src/third_party/valgrind/valgrind.h
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Tests included here are based on build output generated by the six-speed benchmark suite.

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

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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

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Written by: Philip Hazel
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Email domain: cam.ac.uk

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

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."

build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49

generated_by: 'Module::Build version 0.3608'
license: gpl

meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4

name: Module-Build

resources:
  MailingList: mailto:module-build@perl.org

license: http://dev.perl.org/licenses/

repository: http://github.com/dagolden/module-build/

version: 3

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The End

#!/perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }.

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so # that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{

    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "
    my $copyright_msg = <$readme>;
    my ($year) = $copyright_msg =~ /.*\d{4,}/s
    or die "Year not found in README copyright message '$copyright_msg'";
    
    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{

    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.\b\d{4,}/i
    or die "Copyright statement not found in perl -v output '$output'";

    $year;
}

1.833 jackson-annotations 2.9.8
1.833.1 Available under license:

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1.834 libvorbis 1.3.5-3

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1.835 wget 1.17.1 1ubuntu1.5

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

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* atf-c/ui.c: The format_paragraph and format_text functions were
derived from the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5eff2bb5b6.

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,
extcept the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

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Last updated: 2009-02-28

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=== EOF ===

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* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/ContainerManager.java
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* /opt/cola/permits/1102648010_1603824244.11/zookeeper-3-6-2-sources.jar/org/apache/zookeeper/server/quorum/Election.java
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* /opt/cola/permits/110268010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/audit/ZKAuditProvider.java
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* /opt/cola/permits/110268010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/quorum/ObserverMXBean.java
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* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/cli/GetAllChildrenNumberCommand.java
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* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/cli/LsCommand.java
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  jar/org/apache/zookeeper/common/PathUtils.java
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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 3a0982da308228d796df35f98d787c5c7f2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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<!-- $Id: copyright.xsl,v 1.8 2009/07/10 23:47:58 tbox Exp $ -->

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<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">
  <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:variable name="isc.copyright.text">
    <xsl:text>
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    </xsl:text>
  </xsl:variable>

  <xsl:variable name="isc.copyright" select="$isc.copyright.text"/>
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text" select="$isc.copyright"/>
  </xsl:call-template>
</xsl:stylesheet>
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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,-Bs symbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

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

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.c) $< \n | sed "v's/($\*).o:/\1.o $@ : /g" > $@ ;\n [ -s $@ ] || rm -f $@"

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.cc) $< \n | sed "v's/($\*).o:/\1.o $@ : /g" > $@ ;\n [ -s $@ ] || rm -f $@"

## Versioned libraries rules
%.$<.SO.$<.SO_TARGET_VERSION_MAJOR): %.$<.SO.$<.SO_TARGET_VERSION
$(RM) $@ && ln -s ${<F} $@
.%.$<: %.$<.SO.$<.SO_TARGET_VERSION_MAJOR
$(RM) $@ && ln -s ${*F}.$<.SO.$<.SO_TARGET_VERSION $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

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

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

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* /opt/cola/permits/1150919554_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/resources/j2ee_web_services_client_1_1.xsd
* /opt/cola/permits/1150919554_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/resources/j2ee_web_services_1_1.xsd
* /opt/cola/permits/1150919554_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/resources/datatypes.dtd
* /opt/cola/permits/1150919554_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/resources/j2ee_1_4.xsd

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* /opt/cola/permits/1150919554_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/jsp/resources/web-app_2_2.dtd
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* /opt/cola/permits/1150919554_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/jsp/resources/web-jspptaglibrary_2_0.dtd
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INF subdirectory, along with the
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Manifest-Version: 1.0
Archiver-Version: Plexus Archiver
Created-By: 1.5.0_13 (Sun Microsystems Inc.)
Built-By: janb
Build-Jdk: 1.5.0_13
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-RequiredExecutionEnvironment: J2SE-1.4
Specification-Version: 2.5
Bnd-LastModified: 1229016831353
Export-Package: javax.servlet.http;uses:="javax.servlet";version="2.5",
javax.servlet;version="2.5",javax.servlet.resources;version="2.5",javax.servlet.jsp.resources;version="2.5"
Bundle-Version: 2.5
Ignore-Package: javax.servlet.http
Bundle-Name: Servlet Specification API
Bundle-Description: Servlet Specification API
Bundle-DocURL: http://www.mortbay.com
Originally-Created-By: 1.5.0_13 (Sun Microsystems Inc.)
Bundle-Vendor: Mort Bay Consulting
Bundle-ManifestVersion: 2
Bundle-SymbolicName: org.mortbay.jetty.servlet-api
Tool: Bnd-0.0.238
Implementation-Vendor: JCP

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changed in transit. CONFIDENTIAL means that the application
CONFIDENTIAL flag will indicate that the use of SSL is
<xsd:enumeration value="CONFIDENTIAL"/>

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Used in: user

Found in path(s):
* /opt/cola/permits/1150919554_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/resources/web-app_2_3.dtd

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1.861 libxcb 1.11.1 1ubuntu1

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This is syslog-ng, written and maintained by <bazsi@balabit.hu>
on Sat, 03 Mar 2007 16:07:59 +0100

The original source can always be found at:
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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 transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's
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.

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

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subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

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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.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

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

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

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

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

That's all there is to it!

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL.  It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

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

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

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

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

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

We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.
Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact
You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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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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1.872 libxext 1.3.3 1
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* @param confidentialPort
*/
/** Set the URI scheme used for CONFIDENTIAL and INTEGRAL
* redirections.
* @param confidentialScheme A string like"https"
*/

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* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources.jar/org/jctools/util/RangeUtil.java
* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources.jar/org/jctools/queues/atomic/LinkedQueueAtomicNode.java
* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources.jar/org/jctools/queues/atomic/SequencedAtomicReferenceArrayQueue.java
No license file was found, but licenses were detected in source scan.

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<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

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</developer>
<developer>
<url>https://github.com/mjpt777</url>
</developer>
<developer>
<url>https://github.com/RichardWarburton</url>
</developer>
</developers>
<developer>
<url>https://github.com/Kay</url>
</developer>

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<junit.version>4.12</junit.version>
<guava-testlib.version>21.0</guava-testlib.version>
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</project>

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* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

1.879 libbsd 0.8.2-1ubuntu0.1

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*

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src/bsd_getopt.c
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src/fgetln.c
src/progname.c
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include/bsd/sys/bitstring.h
include/bsd/sys/queue.h
include/bsd/timeconv.h
include/bsd/vis.h
man/bitstring.3
man/explicit_bzero.3
man/fgetln.3
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man/funopen.3bsd
man/getbsize.3
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man/reallocarray.3
man/reallocf.3
man/setmode.3
man/strmode.3
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include/bsd/libutil.h

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man/humanize_number.3
man/stringlist.3
src/fmtcheck.c
src/humanize_number.c
src/stringlist.c
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man/expand_number.3
man/closefrom.3
man/flopen.3
man/getpeereid.3
man/pidfile.3
src/expand_number.c
src/hash/sha512.h
src/hash/sha512c.c
src/pidfile.c
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man/fparseln.3
src/fparseln.c

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man/readpassphrase.3
man/strlcpy.3
man/strtonum.3
src/arc4random.c
src/arc4random_openbsd.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
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1.882 psmisc 22.21-2.1build1

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1.887 boost 1.58.0+dfsg 5ubuntu3.1

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//
//
////////////////////////////////////////////////////////////////////////////
```

```c
#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <boost/intrusive/detail/config_begin.hpp>
```

```c
#include <boost/intrusive/detail/config_end.hpp>
```
#include <cstddef>

namespace boost {
  namespace intrusive {
    namespace detail {

      template <typename T, typename U>
      struct is_same {
        static const bool value = false;
      };

      template <typename T>
      struct is_same<T, T> {
        static const bool value = true;
      };

      template<typename T>
      struct add_const {
        typedef const T type;
      };

      template<typename T>
      struct remove_const {
        typedef T type;
      };

      template<typename T>
      struct remove_const<const T> {
        typedef T type;
      };

      template<typename T>
      struct remove_cv {
        typedef T type;
      };

      template<typename T>
      struct remove_cv<const T> {
        typedef T type;
      };

      template<typename T>
      struct remove_cv<const volatile T> {
        typedef T type;
      };

      template<typename T>
      struct remove_cv<volatile T> {
        typedef T type;
      };

      template<class T>
      struct remove_reference
typedef T type;
};

template<class T>
struct remove_reference<T&>
{
    typedef T type;
};

template<class T>
struct remove_pointer
{
    typedef T type;
};

template<class T>
struct remove_pointer<T*>    
{
    typedef T type;
};

template<class T>
struct add_pointer
{
    typedef T *type;
};

typedef char one;
struct two {one _[2];};

template< bool C_ >
struct bool_
{
    static constexpr bool value = C_;    
};

template< class Integer, Integer Value >
struct integer
{
    static constexpr Integer value = Value;
};

typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_ true_type;
typedef false_ false_type;
typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template<class F, class Param>
struct apply
{
    typedef typename F::template apply<Param>::type type;
};

#if defined(_MSC_VER) && (_MSC_VER >= 1400)

template <class T, class U>
struct is_convertible
{
    static const bool value = __is_convertible_to(T, U);
};

#else

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; }; //use any_conversion as first parameter since in MSVC
    //overaligned types can't go through ellipsis
    static false_t dispatch(...);
    static true_t dispatch(U);
    static typename remove_reference<T>::type &trigger();
    public:
        static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

#endif
#endif

template<
   bool C
   , typename T1
   , typename T2
>
struct if_c
{
   typedef T1 type;
};

template<
   typename T1
   , typename T2
>
struct if_c<false,T1,T2>
{
   typedef T2 type;
};

//template<
   //typename C
   // , typename T1
   // , typename T2
   //>
   //struct if_{
   //{
   //   typedef typename if_c<0 != C::value, T1, T2>::type type;
   //};

//template<
   //bool C
   // , typename F1
   // , typename F2
   //>
   //struct eval_if_c
   // : if_c<C,F1,F2>::type
   //{
   //};

//template<
   //typename C
   // , typename T1
   // , typename T2
   //>
   //struct eval_if
   // : if_<C,T1,T2>::type
   //{
   //};
// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T type;
};

template<class T, bool Add>
struct add_const_if_c
{
    typedef typename if_c
        < Add
        , typename add_const<T>::type
        , T
        >::type type;
};

// boost::alignment_of yields to 10K lines of preprocessed code, so we
// need an alternative
template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{
    char c;
    T t;
    alignment_of_hack();
};

template <unsigned A, unsigned S>
struct alignment_logic
{
    static const std::size_t value = A < S ? A : S;
};

template <typename T>
struct alignment_of
{
    static const std::size_t value = alignment_logic
        < sizeof(alignment_of_hack<T>) - sizeof(T)
        , sizeof(T)
        >::value;
};

template<class Class>
class is_empty_class
template <typename T>
struct empty_helper_t1 : public T
{
    empty_helper_t1();
    int i[256];
};

struct empty_helper_t2
{ int i[256]; }; public:
    static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1)>::value);
};

template<> struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<> struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

template <typename T> struct unvoid_ref { typedef T & type; }

template <> struct unvoid_ref<void> { struct type_impl { }; typedef type_impl & type; }

template <> struct unvoid_ref<const void> { struct type_impl { }; typedef type_impl & type; }

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME)     \
template <typename T, typename DefaultType> BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME)     \
    struct boost_intrusive_default_type_ ## TNAME     \
    {     \
        template <typename X>     \
        static char test(int, typename X::TNAME*);     \
        template <typename X>     \
        static int test(...);     \
    };
struct DefaultWrap { typedef DefaultType TNAME; };

static const bool value = (1 == sizeof(test<T>(0, 0)));

typedef typename 
::boost::intrusive::detail::if_c 
  <value, T, DefaultWrap>::type::TNAME type;
};

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL) 
  typename INSTANTIATION_NS_PREFIX
    boost_intrusive_default_type_##TNAME<T, TIMPL>::type 
//

#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME) 
  template <typename T, typename DefaultType> 
  struct boost_intrusive_eval_default_type_##TNAME 
  { 
    template <typename X> 
    static char test(int, typename X::TNAME*); 
    
    template <typename X> 
    static int test(...); 
    
    struct DefaultWrap 
    { 
      typedef typename DefaultType::type TNAME; 
    }
    
    static const bool value = (1 == sizeof(test<T>(0, 0)));
    
    typedef typename 
::boost::intrusive::detail::eval_if_c 
  < value 
    , ::boost::intrusive::detail::identity<T> 
    , ::boost::intrusive::detail::identity<DefaultWrap> 
    >::type::TNAME type;
  };

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL) 
  typename INSTANTIATION_NS_PREFIX
    boost_intrusive_eval_default_type_##TNAME<T, TIMPL>::type 
//

#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX, TYPEDEF_TO_FIND)
template <class T>\
struct TRAITS_PREFIX##_bool
{
    template<bool Add>
    struct two_or_three {one _[2 + Add];};

    template <class U> static one test(...);

    template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);

    static const std::size_t value = sizeof(test<T>(0));
};

template <class T>
struct TRAITS_PREFIX##_bool_is_true
{
    static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(one)*2;
};

#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME, FUNC_NAME)\
    template <typename U, typename Signature>\
    class TRAITS_NAME
    {
    private:
        template<Signature> struct helper;
    template<typename T> \
        static ::boost::intrusive::detail::yes_type check(helper<&T::FUNC_NAME>*);
        template<typename T> static ::boost::intrusive::detail::no_type check(...);
    public:
        static const bool value = sizeof(check<U>(0)) == sizeof(::boost::intrusive::detail::yes_type);
    };

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME)\
    template <typename Type>\
    struct TRAITS_NAME
    {
        struct BaseMixin
        {
            void FUNC_NAME();
        };
        struct Base : public Type, public BaseMixin { Base(); };
        template <typename T, T t> class Helper{};
        template <typename U> \
            static ::boost::intrusive::detail::no_type  check(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME>* = 0);
        static ::boost::intrusive::detail::yes_type check(...);
        static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(check((Base*)(0)));
    };

//
#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME, FUNC_NAME) \
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME) \
\ 
template <typename Type, class> \
struct TRAITS_NAME \
   : public TRAITS_NAME##_ignore_signature<Type> \
{};

//

template <typename T>
inline T* addressof(T& obj)
{
   return static_cast<T*>(
      (static_cast<void*>(
         (const_cast<char*>(
            reinterpret_cast<const char&>(obj)))
      ));
}

} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP
All the value based traits in this library conform to MPL’s requirements for an integral constant type, which includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `<code class="computeroutput">true_type</code>` inherits from `<code class="computeroutput">boost</code>`, `<code class="computeroutput">false_type</code>` inherits from `<code class="computeroutput">false</code>`, and `<code class="computeroutput">integral_constant</code>` inherits from `<code class="computeroutput">integral_constant</code>` (provided `<code class="computeroutput">T</code>` is not `<code class="computeroutput">bool</code>`).
#!/usr/bin/env python
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
from operator import itemgetter
import re
import magic

def authors(filename):
    log = run(['git', 'log', '--follow', '--date=short', '--format=%aN%x09%ad', filename],
              universal_newlines=True)
    for line in log.splitlines():
        author, date = line.split('	')
        if author != 'fix-copyright.py':
            yield author, datetime.strptime(date, '%Y-%m-%d')
def new_copyright(filename, previous):
    def f():
        au = list(authors(filename))
        alldates = map(itemgetter(1), au)
        aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
        for author, records in groupby(aup, itemgetter(0)):
            dates = filter(None, map(itemgetter(1), records))
            if not dates: dates = alldates
            start = min(dates)
            end = max(dates)
            fmt = '{0}' if start.year == end.year else '{0}-{1}'
            yield author, datetime.strftime(date, fmt)
def fix_copyright(filename):
    # Find copyright block in original file
    prefix = set()
    names = []
    lines = []
    with open(filename, 'r') as f:
        content = list(f)
        for i, line in enumerate(content[:15]):
            m = re.match(r'^\W*\(c\)?\s*copyright\s*\(c\)?\s+\d{4}(\s*-\s+\d{4})?\s+(?P<name>.+?)\s*$', line, re.IGNORECASE)
            if m:
                d = m.groupdict()
                prefix.add(d['prefix'])
                lines.append(i)
                names.append(d['name'].strip())
    if len(prefix) != 1:
        print 'Not found:', filename
        return
    prefix = list(prefix)[0]

    print filename
    new = iter(new_copyright(filename, names))
    with open(filename, 'w') as f:
        for i, line in enumerate(content):
            if i in lines:
                for repl in new:
                    print >>f, prefix + repl
            else:
                print >>f, line,
                pass

def all_files():
    ls = run(['git', 'ls-files'], universal_newlines=True)
    for filename in ls.splitlines():
        if magic.from_file(filename, mime=True).split('/')[0] == 'text':
            yield filename

for f in all_files():
    fix_copyright(f)
[article Invalid copyright
  [quickbook 1.5]
  [copyright No year]
]
Maybe this should pass?

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#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#if defined(BOOST_HAS_PRAGMA_ONCE)
#pragma once
#endif

#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/workaround.hpp>
#include <cstddef>

namespace boost {
    namespace container {
        namespace container_detail {

            template <class T, T val>
            struct integral_constant {
                static const T value = val;
                typedef integral_constant<T,val> type;
            };

            template< bool C_ >
            struct bool_ : integral_constant<bool, C_>
            {
                static const bool value = C_;
                operator bool() const { return bool_::value; }
            };

            template< unsigned V_ >
            struct unsigned_ : integral_constant<unsigned, V_>
            {
                static const unsigned value = V_;
                operator unsigned() const { return unsigned_::value; }
            };

            typedef bool_<true>        true_;
typedef bool_<false>  false_;  

typedef true_  true_type;   
typedef false_  false_type;  

typedef char yes_type;   
struct no_type  
{  
    char padding[8];   
};  

template <bool B, class T = void>   
struct enable_if_c   
{   
    typedef T type;  
};  

template <class T>  
struct enable_if_c<false, T>  
{};  

template <class Cond, class T = void>  
struct enable_if : public enable_if_c<Cond::value, T>  
{};  

template <class Cond, class T = void>  
struct disable_if : public enable_if_c<!Cond::value, T>  
{};  

template <bool B, class T = void>  
struct disable_if_c : public enable_if_c<!B, T>  
{};  

#if defined(_MSC_VER) && (_MSC_VER >= 1400)  

template <class T, class U>  
struct is_convertible  
{  
    static const bool value = __is_convertible_to(T, U);  
};  
#else  

template <class T, class U>  
class is_convertible  
{  
    typedef char true_t;  
    class false_t { char dummy[2]; };  
    //use any_conversion as first parameter since in MSVC  
    //overaligned types can't go through ellipsis  
    static false_t dispatch(...);  
    static true_t  dispatch(U);  
    static T &trigger();
public:
static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

#ifndef

template<
    bool C
, typename T1
, typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
, typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
, typename T2
, typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
{
    typedef Pair argument_type;
    typedef typename Pair::first_type result_type;

template<class OtherPair>
const typename Pair::first_type& operator()(const OtherPair& x) const
{  return x.first;  }

const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
{  return x;  }

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// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T argument_type;
    typedef T result_type;

    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

template <std::size_t OrigSize, std::size_t RoundTo>
struct ct_rounded_size
{
    static const std::size_t value = ((OrigSize-1)/RoundTo+1)*RoundTo;
};

template<typename T> struct unvoid { typedef T type; };
template <> struct unvoid<void> { struct type { }; };
template <> struct unvoid<const void> { struct type { }; };

} //namespace container_detail {
} //namespace container {
} //namespace boost {
#include <boost/container/detail/config_end.hpp>
This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advanced 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 (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied Linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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//////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <cstddef>

namespace boost {

//

//

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
  # include <boost/config.hpp>
# endif
#
# if defined(BOOST_HAS_PRAGMA_ONCE)
  # pragma once
# endif
#
#include <cstddef>

namespace boost {


namespace interprocess {
namespace ipcdetail {

    template <class T, T val>
    struct integral_constant {
        static const T value = val;
        typedef integral_constant<T,val> type;
    };

    template< bool C_ >
    struct bool_ : integral_constant<bool, C_> {
        static const bool value = C_; 
    };

    typedef bool_<true>        true_;
    typedef bool_<false>       false_;

    typedef true_  true_type;
    typedef false_ false_type;

typedef char yes_type;
struct no_type {
    char padding[8];
};

    template <bool B, class T = void>
    struct enable_if_c {
        typedef T type;
    };

    template <class T>
    struct enable_if_c<false, T> {};

    template <class Cond, class T = void>
    struct enable_if : public enable_if_c<Cond::value, T> {};

    template <class Cond, class T = void>
    struct disable_if : public enable_if_c<!Cond::value, T> {};

    template <class T, class U>
    class is_convertible {
        typedef char true_t;
        class false_t { char dummy[2]; };
        static true_t dispatch(U);
static false_t dispatch(...);
static T trigger();
public:
static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
  bool C
 , typename T1
 , typename T2
>
struct if_c
{
  typedef T1 type;
};

template<
  typename T1
 , typename T2
>
struct if_c<false,T1,T2>
{
  typedef T2 type;
};

template<
  typename T1
 , typename T2
 , typename T3
>
struct if_c<
{
  typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
// : public std::unary_function<Pair, typename Pair::first_type>
{
  template<class OtherPair>
  const typename Pair::first_type& operator()(const OtherPair& x) const
  { return x.first; }

  const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
  { return x; }
};
// identity is an extension: it is not part of the standard.

template <class T>
struct identity
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

} //namespace ipcdetail {
} //namespace interprocess {
} //namespace boost {

//ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
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 */

[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements for an Integral Constant type: that includes a number of rather intrusive workaround for broken compilers.

Purely as an implementation detail, this
means that `__true_type` inherits from [../../../../libs/mpl/doc/refmanual/bool.html `boost::mpl::true_`],
`__false_type` inherits from [../../../../libs/mpl/doc/refmanual/bool.html `boost::mpl::false_`], and `__integral_constant<T, v>` inherits from
[../../../../libs/mpl/doc/refmanual/integral-c.html `boost::mpl::integral_c<T,v>`] (provided `T` is not `bool`)

[endssect]
[/
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]
[/============================================================================
Boost.Geometry (aka GGL, Generic Geometry Library)

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*/

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//

struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f){}
private:
    split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href="" << (p.root / p.file).string() << ">
" << p.file.string() << "</a>>";
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
    j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output."
        ;
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os <<
        "<!DOCTYPE HTML PUBLIC \"--\'/W3C//DTD HTML 4.0 Transitional//EN\"\n"
"<html>
"<head>
"<title>Boost Licence Dependency Information</title>
</head>
<body>
<H1>Boost Licence Dependency Information</H1>
<H2>Contents</h2>
<pre><a href="#input">Input Information</a>
 if(!m_bsl_summary_mode)
 os << "<a href="#summary">Licence Summary</a>
 os << "<a href="#details">Licence Details</a>
 while(i != j)
 { // title:
 os << "<A href="#files">Files with no recognised license</a>
 "<a href="#authors">Files with no recognised copyright holder</a>
 if(!m_bsl_summary_mode)
 { os << "Moving to the Boost Software License...
 " <a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
 " <a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
 " <a href="#not-to-bsl">Files that can &lt;b&gt;NOT&lt;/b&gt; be moved to the Boost Software License</a>
 " <a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>
 " <a href="#copyright">Copyright Holder Information</a>
}
 os << "<a href="#depend">File Dependency Information</a>
"</pre>
// input Information:

//

os << "<a name="input"></a><h2>Input Information</h2>
if(m_scan_mode)
    os << "<p>The following files were scanned for boost dependencies:<BR>
else
    os << "<p>The following Boost modules were checked:<BR>

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os << *si << "<BR>
    ++si;
}

os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></P>

//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):

//

fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex("^[[:blank:]]*#\[[:blank:]]+define\[[:blank:]]+BOOST_VERSION\[[:blank:]]+(\d+)\$\d+$")
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 100 << "." << version % 100 << "</p>\n";
}

//
// output each license:

//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
//
// start with the summary:

os << "<a name="summary"></a><h2>Licence Summary</h2>
while(i != j)
{
    // title:
    os << "<a name="summary\">Li"
"<H3>" << licenses.first[i->first].license_name << "</H3>"
;// license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
// Copyright holders:
os << "$<P>This license is used by " << i->second.authors.size()
<< " authors and " << i->second.files.size()
<< " files <a href="#" << make_link_target(licenses.first[i->first].license_name) << ">"</a>";
os << "</P></BLOCKQUOTE>\n";
++i;
}
}
// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details"></a><h2>Licence Details</h2>
while(i != j)
{
  // title:
os <<
  "<H3><A name="" << make_link_target(licenses.first[i->first].license_name)
  "">" << licenses.first[i->first].license_name << "</H3>"
;// license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
if(!m_bsl_summary_mode || (license_index >= 3))
{
  // Copyright holders:
os << "$<P>This license is used by the following " << i->second.authors.size() << " copyright
holders:<P><BLOCKQUOTE><P>";
std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
  os << *x << "<BR>\n";
  ++x;
}
os << "</P></BLOCKQUOTE>\n";
// Files using this license:
os << "$<P>This license applies to the following " << i->second.files.size() << " files:
files:<P><BLOCKQUOTE><P>";
std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
os << split_path(m_boost_path, *m) << "<br>
";
++m;
}
os << "</P></BLOCKQUOTE><\n";
}
else
{
os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P><\n";
os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P><\n";
}
++license_index;
++i;
}

// Output list of files not found to be under license control:
//
os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2><p>
"<P>The following " << m_unknown_licenses.size() << " files had no recognisable license information:</P><BLOCKQUOTE><P>
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
os << split_path(m_boost_path, *i2) << "<br>
";
++i2;
}
os << "</p></BLOCKQUOTE>
";
// Output list of files with no found copyright holder:
//
os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2><p>
"<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright holder: </P><\n";
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
os << split_path(m_boost_path, *i2) << "<br>
";
++i2;
}
os << "</p></BLOCKQUOTE>
";
if(!m_bsl_summary_mode)
{
// Output list of files that have been moved over to the Boost Software License, along with enough information for human verification.
Files that can be automatically converted to the Boost Software License:

The following \m_converted_to_bsl.size() files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:

```cpp
if (!m_converted_to_bsl.empty()) {
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
        ::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
                   ie = m_converted_to_bsl.end();
    int file_num = 1;
    while (i != ie) {
        os << "<P>
        [" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
        <"</tt><br><table border="1">
            <tr>
                <td><pre>
                    i->second.first
            </td><pre>
            </td><pre>
            <"</pre></tr>
            <tr>
                <td><pre>
                    i->second.second
            </td><pre></pre>
            <"</pre></tr>
        </table>
        </td>
        ++i;
        ++file_num;
    }
}
```

Output list of files that could be moved over to the Boost Software License:

The following \m_can_migrate_to_bsl.size() files could be manually converted to the Boost Software License, but have not yet been:

```
BLOCKQUOTE
<i2 = m_can_migrate_to_bsl.begin();
    j2 = m_can_migrate_to_bsl.end();
    while(i2 != j2) {
        os << split_path(m_boost_path, *i2) << "</td>
        ++i2;
    }
    os << "</p></BLOCKQUOTE>
```

Output list of files that can not be moved over to the Boost Software License:

The following \m_cannot_migrate_to_bsl.size() files cannot be converted to the Boost Software License because we need the permission of more authors:

```
i2 = m_cannot_migrate_to_bsl.begin();
    j2 = m_cannot_migrate_to_bsl.end();
    while(i2 != j2) {
        os << split_path(m_boost_path, *i2) << "</td>
```
++i2;
}

os << "</p></BLOCKQUOTE>";
//
// Output list of authors that we need permission for to move to the BSL
//
// Authors we need for the BSL
os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>

Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>.

std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
          std::ostream_iterator<std::string>(os, "<br>
"));

os << "</p></BLOCKQUOTE>";
//
// Output a table of copyright information:
//
os << "<H2><a name="copyright"></a>Copyright Holder Information</H2><table border="1">

std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
ad = m_author_data.begin();
edad = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << "</td><td>
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
    efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << " 
        ++fi;
    }
    os << "</td><tr>
    ++ad;
}
os << "</table>

//
// Output file dependency information:
//
os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>

std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>:
::const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin(),
ie = m_converted_to_bsl.end();
while(i != ie)
{
    bad_paths.insert(i->first);
    ++i;
}
fi = bad_paths.begin();
efi = bad_paths.end();

os << "<P>For brevity, only files not under the BSL are shown</P>\n";
}
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
        while(true)
        {
            os << " -> ";
            if(fs::exists(m_boost_path / dep->second))
                os << split_path(m_boost_path, dep->second);
            else if(fs::exists(dep->second))
                os << split_path(fs::path(), dep->second);
            else
                os << dep->second.string();
            if(seen_deps.find(dep->second) != seen_deps.end())
                { os << " <I>(Circular dependency!)</I>";
                    break; // circular dependency!!!
                }
            seen_deps.insert(dep->second);
            last_dep = dep;
            dep = m_dependencies.find(dep->second);
            if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
                break;
        }
    ++fi;
}
1.888 gconf 3.2.6 3ubuntu6

1.888.1 Available under license:

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

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ASN.1 library for Python

.. toctree::
  :maxdepth: 1
Abstract Syntax Notation One (ASN.1) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.org/project/pyasn1/>`_ library implements ASN.1 support in pure-Python.

What is ASN.1
-------------

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions <https://news.ycombinator.com/item?id=8871453>_ on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protobuf/>`_ or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.
ASN.1 applications
---------------

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas
------------

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the `statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation
-------------

.. toctree::
   :maxdepth: 2

/pyasn1/contents

Use case
-------

.. toctree::
   :maxdepth: 2

/example-use-case

Download & Install
------------------
Changes
-------

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

License
-------

The PyASN1 software is distributed under 2-clause BSD License.

Getting help
------------


Books on ASN.1
--------------

The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson
Prof John Larmouth

Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:

  by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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ASN.1 library for Python

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

This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on [ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
--------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1
----------------

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python
The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
    id        INTEGER,
    room  [0] INTEGER OPTIONAL,
    house [1] INTEGER DEFAULT 0
}
```  

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer(),
        OptionalNamedType(
            'room', Integer().subtype(implicitTag=Tag(tagClassContext, tagFormatSimple, 0))
        ),
        DefaultedNamedType(
            'house', Integer(0).subtype(implicitTag=Tag(tagClassContext, tagFormatSimple, 1))
        )
    )
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
```
Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```
Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
 id=123
 room=321
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1
-----------------

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question [on Stack Overflow](https://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.902 log-rotate 3.8.7-2ubuntu2.16.04.1

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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
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* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/UnmarshallerHandler.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/AbstractMarshallerImpl.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/DatatypeConverterInterface.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/ValidationEvent.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/Unmarshaller.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/TypeConstraintException.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/ParseConversionEventImpl.java
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* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlAccessType.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlAnyAttribute.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlMimeType.java
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* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlMixed.java
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* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlList.java

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* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/jaxb-api.xml/bind/WhiteSpaceProcessor.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/jaxb-api.xml/bind/DatatypeConverterImpl.java
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1.909 byte-buddy 1.6.14

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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.
*/

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*/
/**
 * Creates a new [ @link GeneratorAdapter ]. <i>Subclasses must not use this
 * constructor</i>. 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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 */
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 * 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.
 */
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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.
 */

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* /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 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 fist 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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/**
* Creates a new [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.
* /

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* 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/TypeReference.java

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

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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.

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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.

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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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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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.

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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.

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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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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1.928 tomcat-jdbc 8.5.32

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* /opt/cola/permits/1150922516_1617720560.31/0/gson-2-5-sources-3-jar/com/google/gson/TypeAdapterFactory.java
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former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

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man/fopen.3
man/getpeereid.3
man/pidfile.3
src/expand_number.c
src/hash/sha512.h
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man/strtonum.3
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src/arc4random_uniform.c
src/arc4random_unix.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
src/getentropy_linux.c
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include/bsd/vis.h
man/bitstring.3
man/explicit_bzero.3
man/fgetln.3
man/fgetwln.3
man/funopen.3bsd
man/getbsize.3
man/heapsort.3
man/nlist.3
man/queue.3bsd
man/radixsort.3
man/reallocarray.3
man/reallocf.3
man/setmode.3
man/strmode.3
man/strnstr.3
man/unvis.3
man/vis.3
man/wcslepy.3
src/getbsize.c
src/heapsort.c
src/merge.c
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src/arc4random_unix.h
src/closefrom.c
src/getentropy_aix.c
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Martin Richards
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/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.11, January 15th, 2017

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1.951 x-time-rate

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/*
 ** 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> ^(The SQLITE_CONFIG_MALLOC 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>

**
The SQLITE_CONFIG_GETMALLOC 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 simulates memory allocation failure or tracks memory usage, for example.

The SQLITE_CONFIG_SMALL_MALLOC option takes single argument of type int, interpreted as a boolean, which if true provides a hint to SQLite that it should avoid large memory allocations if possible.

SQLite will run faster if it is free to make large memory allocations, but some application might prefer to run slower in exchange for guarantees about memory fragmentation that are possible if large allocations are avoided. This hint is normally off.

The SQLITE_CONFIG_MEMSTATUS 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_status64()]

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.

The SQLITE_CONFIG_SCRATCH option is no longer used.

The SQLITE_CONFIG_PAGECACHE option specifies a memory pool that SQLite can use for the database page cache with the default page cache implementation.

This configuration option is a no-op if an application-define page cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2].

There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to 8-byte aligned memory (pMem), the size of each page cache line (sz), and the number of cache lines (N).
The sz argument should be the size of the largest database page (a power of two between 512 and 65536) plus some extra bytes for each page header. The number of extra bytes needed by the page header can be determined using [SQLITE_CONFIG_PCACHE_HDRSZ].

It is harmless, apart from the wasted memory, for the sz parameter to be larger than necessary. The pMem argument must be either a NULL pointer or a pointer to an 8-byte aligned block of memory of at least sz*N bytes, otherwise subsequent behavior is undefined.

When pMem is not NULL, SQLite will strive to use the memory provided to satisfy page cache needs, falling back to [sqlite3_malloc()] if a page cache line is larger than sz bytes or if all of the pMem buffer is exhausted.

If pMem is NULL and N is non-zero, then each database connection does an initial bulk allocation for page cache memory from [sqlite3_malloc()] sufficient for N cache lines if N is positive or of -1024*N bytes if N is negative. If additional page cache memory is needed beyond what is provided by the initial allocation, then SQLite goes to [sqlite3_malloc()] separately for each additional cache line.

The SQLITE_CONFIG_HEAP 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_PAGECACHE].

The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns [SQLITE_ERROR] if invoked otherwise.

There are three arguments to SQLITE_CONFIG_HEAP:
- 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 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.

The SQLITE_CONFIG_MUTEX 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 of 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

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the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
the entire muting 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> ^(The SQLITE_CONFIG_GETMUTEX 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 definedmutex 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 muting 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> ^(The SQLITE_CONFIG_LOOKASIDE option takes two arguments that determine
** the default size of lookaside memory 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.)^ ^{SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>

** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_PCACHE2 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 [sqlite3_pcache_methods2] object. </dd>

** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 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
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 the 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.

** [[SQLITE_CONFIG_URI]] **<dt>SQLITE_CONFIG_URI
** <dd>>^The SQLITE_CONFIG_URI 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>>^The SQLITE_CONFIG_COVERING_INDEX_SCAN 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
** 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
** will be silently truncated if necessary so that it does not 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.
**

** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
**

** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
** bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
**

** [[SQLITE_CONFIG_PMASZ]]
** <dt>SQLITE_CONFIG_PMASZ
** <dd>^The SQLITE_CONFIG_PMASZ option takes a single parameter which
** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
** sorter to that integer. The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option. New threads are launched
** to help with sort operations when multithreaded sorting
** is enabled (using the [PRAGMA threads] command) and the amount of content
** to be sorted exceeds the page size times the minimum of the
** [PRAGMA cache_size] setting and this value.
**
** [[SQLITE_CONFIG_STMTJRNL_SPILL]]
** <dt>SQLITE_CONFIG_STMTJRNL_SPILL
** <dd>The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
** becomes the [statement journal] spill-to-disk threshold.
** [Statement journals] are held in memory until their size (in bytes)
** exceeds this threshold, at which point they are written to disk.
** Or if the threshold is -1, statement journals are always held
** exclusively in memory.
** Since many statement journals never become large, setting the spill
** threshold to a value such as 64KiB can greatly reduce the amount of
** I/O required to support statement rollback.
** The default value for this setting is controlled by the
** [SQLITE_STMTJRNL_SPILL] compile-time option.
**
** [[SQLITE_CONFIG_SORTERREF_SIZE]]
** <dt>SQLITE_CONFIG_SORTERREF_SIZE
** <dd>The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
** of type (int) - the new value of the sorter-reference size threshold.
** Usually, when SQLite uses an external sort to order records according
** to an ORDER BY clause, all fields required by the caller are present in the
** sorted records. However, if SQLite determines based on the declared type
** of a table column that its values are likely to be very large - larger
** than the configured sorter-reference size threshold - then a reference
** is stored in each sorted record and the required column values loaded
** from the database as records are returned in sorted order. The default
** value for this option is to never use this optimization. Specifying a
** negative value for this option restores the default behaviour.
** This option is only available if SQLite is compiled with the
** [SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
**</dt>
*/

Found in path(s):
* /opt/cola/permits/1323753756_1652082712.35/0/sqlite-amalgamation-3250200-4-zip/sqlite-amalgamation-3250200/sqlite3.h
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/*
** 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> ^(The SQLITE_CONFIG_MALLOC 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> ^(The SQLITE_CONFIG_GETMALLOC 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_SMALL_MALLOC]] <dt>SQLITE_CONFIG_SMALL_MALLOC</dt>
** <dd> ^The SQLITE_CONFIG_SMALL_MALLOC option takes single argument of
** type int, interpreted as a boolean, which if true provides a hint to
** SQLite that it should avoid large memory allocations if possible.
** SQLite will run faster if it is free to make large memory allocations,
** but some application might prefer to run slower in exchange for
** guarantees about memory fragmentation that are possible if large
** allocations are avoided. This hint is normally off.
** </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^(The SQLITE_CONFIG_MEMSTATUS 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:
** <ul>
**   <li> [sqlite3_memory_used()]
**   <li> [sqlite3_memory_highwater()]
**   <li> [sqlite3_soft_heap_limit64()]
**   <li> [sqlite3_status64()]
** </ul>)^
** ^ 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> The SQLITE_CONFIG_SCRATCH option is no longer used.
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>**

** <dd> ^The SQLITE_CONFIG_PAGECACHE option specifies a memory pool that SQLite can use for the database page cache with the default page cache implementation.

** This configuration option is a no-op if an application-define page cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2].

** ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to 8-byte aligned memory (pMem), the size of each page cache line (sz), and the number of cache lines (N).

** The sz argument should be the size of the largest database page (a power of two between 512 and 65536) plus some extra bytes for each page header. ^The number of extra bytes needed by the page header can be determined using [SQLITE_CONFIG_PCACHE_HDRSZ].

** ^It is harmless, apart from the wasted memory, for the sz parameter to be larger than necessary. The pMem argument must be either a NULL pointer or a pointer to an 8-byte aligned block of memory of at least sz*N bytes, otherwise subsequent behavior is undefined.

** ^When pMem is not NULL, SQLite will strive to use the memory provided to satisfy page cache needs, falling back to [sqlite3_malloc()] if a page cache line is larger than sz bytes or if all of the pMem buffer is exhausted.

** ^If pMem is NULL and N is non-zero, then each database connection does an initial bulk allocation for page cache memory from [sqlite3_malloc()] sufficient for N cache lines if N is positive or of -1024*N bytes if N is negative. ^If additional page cache memory is needed beyond what is provided by the initial allocation, then SQLite goes to [sqlite3_malloc()] separately for each additional cache line. </dd>

** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>**

** <dd> ^The SQLITE_CONFIG_HEAP 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_PAGECACHE].

** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns [SQLITE_ERROR] if invoked otherwise.

** ^There are three arguments to SQLITE_CONFIG_HEAP:

** 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 then the alternative memory allocator is engaged to handle all of SQLites 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> ^(The SQLITE_CONFIG_MUTEX 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> ^(The SQLITE_CONFIG_GETMUTEX 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> ^(The SQLITE_CONFIG_LOOKASIDE option takes two arguments that determine
** the default size of lookaside memory 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.)^  ^(SQLITE_CONFIG_LOOKASIDE
** sets the <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** option 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> ^(The SQLITE_CONFIG_PCACHE2 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 [sqlite3_pcache_methods2] object.</dd>

**
** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which
** is a pointer to an [sqlite3_pcache_methods2] object. SQLite copies of
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 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 SQLITE_CONFIG_URI 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()], 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.

The SQLITE_CONFIG_COVERING_INDEX_SCAN 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 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 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
** will be silently truncated if necessary so that it does not 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.

** SQLite_CONFIG_WIN32_HEAPSIZE
** <dt>SQLite_CONFIG_WIN32_HEAPSIZE
** <dd> The SQLite_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. SQLite_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.

** SQLite_CONFIG_PCACHE_HDRSZ
** <dt>SQLite_CONFIG_PCACHE_HDRSZ
** <dd> The SQLite_CONFIG_PCACHE_HDRSZ option takes a single parameter which
**is a pointer to an integer and writes into that integer the number of extra
**bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
**The amount of extra space required can change depending on the compiler,
**target platform, and SQLite version.
**
**[[SQLITE_CONFIG_PMASZ]]
**<dt>SQLITE_CONFIG_PMASZ
**<dd>*The SQLITE_CONFIG_PMASZ option takes a single parameter which
**is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
**sorter to that integer. The default minimum PMA Size is set by the
**[SQLITE_SORTER_PMASZ] compile-time option. New threads are launched
**to help with sort operations when multithreaded sorting
**is enabled (using the [PRAGMA threads] command) and the amount of content
**to be sorted exceeds the page size times the minimum of the
**[PRAGMA cache_size] setting and this value.
**
**[[SQLITE_CONFIG_STMTJRNL_SPILL]]
**<dt>SQLITE_CONFIG_STMTJRNL_SPILL
**<dd>*The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
**becomes the [statement journal] spill-to-disk threshold.
**[Statement journals] are held in memory until their size (in bytes)
**exceeds this threshold, at which point they are written to disk.
**Or if the threshold is -1, statement journals are always held
**exclusively in memory.
**Since many statement journals never become large, setting the spill
**threshold to a value such as 64KiB can greatly reduce the amount of
**I/O required to support statement rollback.
**The default value for this setting is controlled by the
**[SQLITE_STMTJRNL_SPILL] compile-time option.
**
**[[SQLITE_CONFIG_SORTERREF_SIZE]]
**<dt>SQLITE_CONFIG_SORTERREF_SIZE
**<dd>*The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
**of type (int) - the new value of the sorter-reference size threshold.
**Usually, when SQLite uses an external sort to order records according
**to an ORDER BY clause, all fields required by the caller are present in the
**sorted records. However, if SQLite determines based on the declared type
**of a table column that its values are likely to be very large - larger
**than the configured sorter-reference size threshold - then a reference
**is stored in each sorted record and the required column values loaded
**from the database as records are returned in sorted order. The default
**value for this option is to never use this optimization. Specifying a
**negative value for this option restores the default behaviour.
**This option is only available if SQLite is compiled with the
**[SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
***/
The "printf" code that follows dates from the 1980's. It is in
the public domain.

**************************************************************************

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.

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.
** Definitions of 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().
*/
/

** Return a pointer to the "temporary page" buffer held internally by the pager. This is a buffer that is big enough to hold the
temporary content of a database page. This buffer is used internally during rollback 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/cola/permits/1323753756_1652082712.35/0/sqlite-amalgamation-3250200-4-zip/sqlite-amalgamation-
3250200/sqlite3.c

1.954 lucene 3.6.0

1.955 netty-codec 4.1.47.Final

1.955.1 Available under license:

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

Manifest-Version: 1.0
Implementation-Title: Netty/Codec
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name: io.netty.codec
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.codec
Implementation-Version: 4.1.47.Final
Built-By: root
Bnd-LastModified: 1583757207060
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: com.google.protobuf;version="[2.6,3)";resolution:=optional,com.google.protobuf.nano;resolution:=optional,com.jcraft.jzlib;resolution:=optional,com.ning.compress;version="[1.0,2)";resolution:=o
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https://netty.io/netty-codec/

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Found in path(s):
* /opt/cola/permits/1151111060_1617788605.51/0/netty-codec-4-1-47-final-5-jar/META-INF/maven/io.netty/netty-codec/pom.xml

1.956 txw2 201103-SNAPSHOT

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1.957 python-setuptools 49.6.0

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% last edit: shore Sat Nov 23 20:28:03 1985
% RCSID: $Header: psdit.pro,v 2.1 85/11/24 12:19:43 shore Rel $

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The maximum number of keys which will be stored on any single page.
Because of the way the btree data structure works,
maxkeypage must always be greater than or equal to 2.
If maxkeypage is 0 (no maximum number of keys is specified) the page fill factor is
made as large as possible (which is almost invariably what is wanted).

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* @(#)search.h 8.1 (Berkeley) 6/4/93
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* /opt/cola/permits/1208491745_1632895974.69/0/db-1-86-tar/db.1.86/recno/rec_close.c
* /opt/cola/permits/1208491745_1632895974.69/0/db-1-86-tar/db.1.86/recno/rec_put.c
* /opt/cola/permits/1208491745_1632895974.69/0/db-1-86-tar/db.1.86/recno/rec_get.c
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Three additional options may be specified by
.IR or 'ing
them into the
.I flags
argument.
.TP
DB_LOCK
Do the necessary locking in the database to support concurrent access.
If concurrent access isn't needed or the database is read-only this
flag should not be set, as it tends to have an associated performance penalty.

TP
DB_SHMEM
Place the underlying memory pool used by the database in shared memory.
Necessary for concurrent access.

TP
DB_TXN
Support transactions in the database.
The DB_LOCK and DB_SHMEM flags must be set as well.

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* */
1.981 python 2.5.4

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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.

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Building and Distributing Packages with Setuptools

``Setuptools`` is a collection of enhancements to the Python ``distutils`` (for Python 2.6 and up) that allow developers to more easily build and distribute Python packages, especially ones that have dependencies on other packages.

Packages built and distributed using ``setuptools`` look to the user like ordinary Python packages based on the `distutils`. Your users don’t need to install or even know about setuptools in order to use them, and you don’t have to include the entire setuptools package in your distributions. By including just a single `bootstrap module` (a 12K .py file), your package will automatically download and install ``setuptools`` if the user is building your package from source and doesn't have a suitable version already installed.

.. _bootstrap module: https://bootstrap.pypa.io/ez_setup.py

Feature Highlights:

* Automatically find/download/install/upgrade dependencies at build time using the `EasyInstall tool <easy_install.html>`_, which supports downloading via HTTP, FTP, Subversion, and SourceForge, and automatically scans web pages linked from PyPI to find download links. (It's the closest thing to CPAN currently available for Python.)
* Create `Python Eggs <http://peak.telecommunity.com/DevCenter/PythonEggs>`_ - a single-file importable distribution format

* Enhanced support for accessing data files hosted in zipped packages.

* Automatically include all packages in your source tree, without listing them individually in setup.py

* Automatically include all relevant files in your source distributions, without needing to create a ``MANIFEST.in`` file, and without having to force regeneration of the ``MANIFEST`` file when your source tree changes.

* Automatically generate wrapper scripts or Windows (console and GUI) .exe files for any number of "main" functions in your project. (Note: this is not a py2exe replacement; the .exe files rely on the local Python installation.)

* Transparent Pyrex support, so that your setup.py can list `.pyx` files and still work even when the end-user doesn't have Pyrex installed (as long as you include the Pyrex-generated C in your source distribution)

* Command aliases - create project-specific, per-user, or site-wide shortcut names for commonly used commands and options

* PyPI upload support - upload your source distributions and eggs to PyPI

* Deploy your project in "development mode", such that it's available on `sys.path`, yet can still be edited directly from its source checkout.

* Easily extend the distutils with new commands or `setup()` arguments, and distribute/reuse your extensions for multiple projects, without copying code.

* Create extensible applications and frameworks that automatically discover extensions, using simple "entry points" declared in a project's setup script.

In addition to the PyPI downloads, the development version of `setuptools` is available from the `Python SVN sandbox`, and in-development versions of the `0.6 branch` are available as well.

.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

.. _Python SVN sandbox: http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev

.. contents:: **Table of Contents**

.. _ez_setup.py: `bootstrap module`
Installing ``setuptools``

Please follow the `EasyInstall Installation Instructions`_ to install the current stable version of setuptools. In particular, be sure to read the section on `Custom Installation Locations`_ if you are installing anywhere other than Python’s ``site-packages`` directory.

.. _EasyInstall Installation Instructions: easy_install.html#installation-instructions

.. _Custom Installation Locations: easy_install.html#custom-installation-locations

If you want the current in-development version of setuptools, you should first install a stable version, and then run:

``
ez_setup.py setuptools==dev
``

This will download and install the latest development (i.e. unstable) version of setuptools from the Python Subversion sandbox.

Basic Use

For basic use of setuptools, just import things from setuptools instead of the distutils. Here's a minimal setup script using setuptools:

```
from setuptools import setup, find_packages
setup(
    name = "HelloWorld",
    version = "0.1",
    packages = find_packages(),
)
```

As you can see, it doesn't take much to use setuptools in a project. Run that script in your project folder, alongside the Python packages you have developed.

Invoke that script to produce eggs, upload to PyPI, and automatically include all packages in the directory where the setup.py lives. See the `Command Reference`_ section below to see what commands you can give to this setup script. For example, to produce a source distribution, simply invoke:..
Of course, before you release your project to PyPI, you'll want to add a bit more information to your setup script to help people find or learn about your project. And maybe your project will have grown by then to include a few dependencies, and perhaps some data files and scripts:

```python
from setuptools import setup, find_packages
setup(
    name = "HelloWorld",
    version = "0.1",
    packages = find_packages(),
    scripts = ['say_hello.py'],

    # Project uses reStructuredText, so ensure that the docutils get
    # installed or upgraded on the target machine
    install_requires = ['docutils>=0.3'],

    package_data = {
        # If any package contains *.txt or *.rst files, include them:
        ': ['*.txt', '*.rst'],
        # And include any *.msg files found in the 'hello' package, too:
        'hello': ['*.msg'],
    },

    # metadata for upload to PyPI
    author = "Me",
    author_email = "me@example.com",
    description = "This is an Example Package",
    license = "PSF",
    keywords = 'hello world example examples',
    url = "http://example.com/HelloWorld/",  # project home page, if any

    # could also include long_description, download_url, classifiers, etc.
)
```

In the sections that follow, we'll explain what most of these `setup()` arguments do (except for the metadata ones), and the various ways you might use them in your own project(s).

### Specifying Your Project's Version

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

Setuptools can work well with most versioning schemes; there are, however, a few special things to watch out for, in order to ensure that setuptools and EasyInstall can always tell what version of your package is newer than another version. Knowing these things will also help you correctly specify what
versions of other projects your project depends on.

A version consists of an alternating series of release numbers and pre-release or post-release tags. A release number is a series of digits punctuated by dots, such as ``2.4`` or ``0.5``. Each series of digits is treated numerically, so releases ``2.1`` and ``2.1.0`` are different ways to spell the same release number, denoting the first subrelease of release 2. But ``2.10`` is the *tenth* subrelease of release 2, and so is a different and newer release from ``2.1`` or ``2.1.0``. Leading zeros within a series of digits are also ignored, so ``2.01`` is the same as ``2.1``, and different from ``2.0.1``.

Following a release number, you can have either a pre-release or post-release tag. Pre-release tags make a version be considered *older* than the version they are appended to. So, revision ``2.4`` is *newer* than revision ``2.4c``. In turn, revision ``2.4c`` is *newer* than ``2.4c1`` or ``2.4a``. Post-release tags make a version be considered *newer* than the version they are appended to. So, revisions like ``2.4a-1`` and ``2.4p3`` are newer than ``2.4``. But they are *older* than ``2.4a`` which has a higher release number.

A pre-release tag is a series of letters that are alphabetically before "final". Some examples of prerelease tags would include ``alpha``, ``beta``, ``a``, ``c``, ``dev``, and so on. You do not have to place a dot or dash before the prerelease tag if it's immediately after a number, but it's okay to do so if you prefer. Thus, ``2.4c1`` and ``2.4c1`` and ``2.4-c1`` all represent release candidate 1 of version ``2.4``, and are treated as identical by setuptools.

In addition, there are three special prerelease tags that are treated as if they were the letter "c": `pre`, `preview`, and `rc`. So, version ``2.4rc1`` and ``2.4pre1`` and ``2.4preview1`` are all the exact same version as ``2.4c1``, and are treated as identical by setuptools.

A post-release tag is either a series of letters that are alphabetically greater than or equal to "final", or a dash (``-``). Post-release tags are generally used to separate patch numbers, port numbers, build numbers, revision numbers, or date stamps from the release number. For example, the version ``2.4-r1263`` might denote Subversion revision 1263 of a post-release patch of version ``2.4``. Or you might use ``2.4-20051127`` to denote a date-stamped post-release.

Notice that after each pre or post-release tag, you are free to place another release number, followed again by more pre- or post-release tags. For example, ``0.6a9.dev-r41475`` could denote Subversion revision 41475 of the in-development version of the ninth alpha of release 0.6. Notice that ``dev`` is a pre-release tag, so this version is a *lower* version number than ``0.6a9``, which would be the actual ninth alpha of release 0.6. But the ``-r41475`` is a post-release tag, so this version is *newer* than ``0.6a9.dev``.
For the most part, setuptools’ interpretation of version numbers is intuitive, but here are a few tips that will keep you out of trouble in the corner cases:

* Don't stick adjoining pre-release tags together without a dot or number between them. Version ``1.9a.dev`` is the ``adev`` prerelease of ``1.9``. *not* a development pre-release of ``1.9a``. Use ``.dev`` instead, as in ``1.9a.dev``. ``1.9a.dev`` and even ``1.9.a.dev`` are identical versions from setuptools’ point of view, so you can use whatever scheme you prefer.

* If you want to be certain that your chosen numbering scheme works the way you think it will, you can use the `pkg_resources.parse_version()` function to compare different version numbers::

  >>> from pkg_resources import parse_version
  >>> parse_version('1.9.a.dev') == parse_version('1.9a0dev')
  True
  >>> parse_version('2.1-rc2') < parse_version('2.1')
  True
  >>> parse_version('0.6a9dev-r41475') < parse_version('0.6a9')
  True

Once you've decided on a version numbering scheme for your project, you can have setuptools automatically tag your in-development releases with various pre- or post-release tags. See the following sections for more details:

* `Tagging and "Daily Build" or "Snapshot" Releases`_
* `Managing "Continuous Releases" Using Subversion`_
* The `egg_info`_ command

New and Changed `setup()` Keywords
====================================

The following keyword arguments to `setup()` are added or changed by setuptools. All of them are optional; you do not have to supply them unless you need the associated setuptools feature.

``include_package_data``
If set to “True”, this tells setuptools to automatically include any data files it finds inside your package directories that are specified by your `MANIFEST.in` file. For more information, see the section below on `Including Data Files`.

``exclude_package_data``
A dictionary mapping package names to lists of glob patterns that should be *excluded* from your package directories. You can use this to trim back
any excess files included by ``include_package_data``. For a complete
description and examples, see the section below on `Including Data Files`_.

``package_data``
A dictionary mapping package names to lists of glob patterns. For a 
complete description and examples, see the section below on `Including 
Data Files`_. You do not need to use this option if you are using 
``include_package_data``, unless you need to add e.g. files that are
generated by your setup script and build process. (And are therefore not 
in source control or are files that you don't want to include in your 
source distribution.)

``zip_safe``
A boolean (True or False) flag specifying whether the project can be 
safely installed and run from a zip file. If this argument is not 
supplied, the ``bdist_egg`` command will have to analyze all of your 
project's contents for possible problems each time it builds an egg.

``install_requires``
A string or list of strings specifying what other distributions need to 
be installed when this one is. See the section below on `Declaring 
Dependencies`_ for details and examples of the format of this argument.

``entry_points``
A dictionary mapping entry point group names to strings or lists of strings 
defining the entry points. Entry points are used to support dynamic 
discovery of services or plugins provided by a project. See `Dynamic 
Discovery of Services and Plugins`_ for details and examples of the format 
of this argument. In addition, this keyword is used to support `Automatic 
Script Creation`_.

``extras_require``
A dictionary mapping names of "extras" (optional features of your project) 
to strings or lists of strings specifying what other distributions must be 
installed to support those features. See the section below on `Declaring 
Dependencies`_ for details and examples of the format of this argument.

``setup_requires``
A string or list of strings specifying what other distributions need to 
be present in order for the *setup script* to run. ``setuptools`` will 
attempt to obtain these (even going so far as to download them using 
``EasyInstall``) before processing the rest of the setup script or commands. 
This argument is needed if you are using distutils extensions as part of 
your build process; for example, extensions that process setup() arguments 
and turn them into EGG-INFO metadata files.

(Note: projects listed in ``setup_requires`` will NOT be automatically 
installed on the system where the setup script is being run. They are}
simply downloaded to the .eggs directory if they're not locally available already. If you want them to be installed, as well as being available when the setup script is run, you should add them to ``install_requires`` and ``setup_requires``."

``dependency_links``
A list of strings naming URLs to be searched when satisfying dependencies. These links will be used if needed to install packages specified by ``setup_requires`` or ``tests_require``. They will also be written into the egg's metadata for use by tools like EasyInstall to use when installing an `.egg` file.

``namespace_packages``
A list of strings naming the project's "namespace packages". A namespace package is a package that may be split across multiple project distributions. For example, Zope 3's `zope` package is a namespace package, because subpackages like `zope.interface` and `zope.publisher` may be distributed separately. The egg runtime system can automatically merge such subpackages into a single parent package at runtime, as long as you declare them in each project that contains any subpackages of the namespace package, and as long as the namespace package's `__init__.py` does not contain any code other than a namespace declaration. See the section below on `Namespace Packages` for more information.

``test_suite``
A string naming a `unittest.TestCase` subclass (or a package or module containing one or more of them, or a method of such a subclass), or naming a function that can be called with no arguments and returns a `unittest.TestSuite`. If the named suite is a module, and the module has an `additional_tests()` function, it is called and the results are added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite.

Specifying this argument enables use of the `test` command to run the specified test suite, e.g. via `setup.py test`. See the section on the `test` command below for more details.

``tests_require``
If your project's tests need one or more additional packages besides those needed to install it, you can use this option to specify them. It should be a string or list of strings specifying what other distributions need to be present for the package's tests to run. When you run the `test` command, ``setuptools`` will attempt to obtain these (even going so far as to download them using `EasyInstall`). Note that these required projects will *not* be installed on the system where the tests are run, but only downloaded to the project's setup directory if they're not already installed locally.
.. _test_loader:

``test_loader``

If you would like to use a different way of finding tests to run than what setuptools normally uses, you can specify a module name and class name in this argument. The named class must be instantiable with no arguments, and its instances must support the `loadTestsFromNames()` method as defined in the Python `unittest` module's `TestLoader` class. Setuptools will pass only one test "name" in the `names` argument: the value supplied for the `test_suite` argument. The loader you specify may interpret this string in any way it likes, as there are no restrictions on what may be contained in a `test_suite` string.

The module name and class name must be separated by a `:`. The default value of this argument is `"setuptools.command.test:ScanningLoader"`. If you want to use the default `unittest` behavior, you can specify `"unittest:TestLoader"` as your `test_loader` argument instead. This will prevent automatic scanning of submodules and subpackages.

The module and class you specify here may be contained in another package, as long as you use the `tests_require` option to ensure that the package containing the loader class is available when the `test` command is run.

``eager_resources``

A list of strings naming resources that should be extracted together, if any of them is needed, or if any C extensions included in the project are imported. This argument is only useful if the project will be installed as a zipfile, and there is a need to have all of the listed resources be extracted to the filesystem *as a unit*. Resources listed here should be `/`-separated paths, relative to the source root, so to list a resource `foo.png` in package `bar.baz`, you would include the string `bar/baz/foo.png` in this argument.

If you only need to obtain resources one at a time, or you don't have any C extensions that access other files in the project (such as data files or shared libraries), you probably do NOT need this argument and shouldn't mess with it. For more details on how this argument works, see the section below on `Automatic Resource Extraction`_.

``use_2to3``

Convert the source code from Python 2 to Python 3 with 2to3 during the build process. See :doc:`python3` for more details.

``convert_2to3_doctests``

List of doctest source files that need to be converted with 2to3. See :doc:`python3` for more details.

``use_2to3_fixers``
A list of modules to search for additional fixers to be used during the 2to3 conversion. See :doc:`python3` for more details.

Using ``find_packages()``

For simple projects, it's usually easy enough to manually add packages to the `packages` argument of `setup()`. However, for very large projects (Twisted, PEAK, Zope, Chandler, etc.), it can be a big burden to keep the package list updated. That's what `setuptools.find_packages()` is for.

``find_packages()`` takes a source directory and two lists of package name patterns to exclude and include. If omitted, the source directory defaults to the same directory as the setup script. Some projects use a `src` or `lib` directory as the root of their source tree, and those projects would of course use `''src''` or `''lib''` as the first argument to `find_packages()`. (And such projects also need something like `''package_dir = [':src']''` in their `''setup()''` arguments, but that's just a normal distutils thing.)

Anyway, `find_packages()` walks the target directory, filtering by inclusion patterns, and finds Python packages (any directory). On Python 3.2 and earlier, packages are only recognized if they include an `''__init__.py''` file. Finally, exclusion patterns are applied to remove matching packages.

Inclusion and exclusion patterns are package names, optionally including wildcards. For example, `find_packages(exclude=["*.tests"])` will exclude all packages whose last name part is `"tests"`. Or, `find_packages(exclude=["*.tests", "*.tests.*"]`) will also exclude any subpackages of packages named `"tests"`, but it still won't exclude a top-level `"tests"` package or the children thereof. In fact, if you really want no `"tests"` packages at all, you'll need something like this:

```python
find_packages(exclude=["*.tests", "*.tests.*", "tests.", "tests"])
```

in order to cover all the bases. Really, the exclusion patterns are intended to cover simpler use cases than this, like excluding a single, specified package and its subpackages.

Regardless of the parameters, the `find_packages()` function returns a list of package names suitable for use as the `packages` argument to `setup()`, and so is usually the easiest way to set that argument in your setup script. Especially since it frees you from having to remember to modify your setup script whenever your project grows additional top-level packages or subpackages.
Automatic Script Creation

Packaging and installing scripts can be a bit awkward with the distutils. For one thing, there's no easy way to have a script's filename match local conventions on both Windows and POSIX platforms. For another, you often have to create a separate file just for the "main" script, when your actual "main" is a function in a module somewhere. And even in Python 2.4, using the ``-m`` option only works for actual ``.py`` files that aren't installed in a package.

``setuptools`` fixes all of these problems by automatically generating scripts for you with the correct extension, and on Windows it will even create an ``.exe`` file so that users don't have to change their `PATH` settings. The way to use this feature is to define "entry points" in your setup script that indicate what function the generated script should import and run. For example, to create two console scripts called "foo" and "bar", and a GUI script called "baz", you might do something like this::

```python
setup(
    # other arguments here...
    entry_points={
        'console_scripts': [
            'foo = my_package.some_module:main_func',
            'bar = other_module:some_func',
        ],
        'gui_scripts': [
            'baz = my_package_gui:start_func',
        ]
    }
)
```

When this project is installed on non-Windows platforms (using "setup.py install", "setup.py develop", or by using EasyInstall), a set of "foo", "bar", and "baz" scripts will be installed that import "main_func" and "some_func" from the specified modules. The functions you specify are called with no arguments, and their return value is passed to `sys.exit()`, so you can return an errorlevel or message to print to stderr.

On Windows, a set of "foo.exe", "bar.exe", and "baz.exe" launchers are created, alongside a set of "foo.py", "bar.py", and "baz.pyw" files. The "exe" wrappers find and execute the right version of Python to run the "py" or "pyw" file.

You may define as many "console script" and "gui script" entry points as you like, and each one can optionally specify "extras" that it depends on, that will be added to `sys.path` when the script is run. For more information on "extras", see the section below on 'Declaring Extras'. For more information
on "entry points" in general, see the section below on `Dynamic Discovery of Services and Plugins`.

"Eggexecutable" Scripts
---------------------

Occasionally, there are situations where it's desirable to make an `.egg` file directly executable. You can do this by including an entry point such as the following:

```python
setup(
    # other arguments here...
    entry_points = {
        'setuptools.installation': [
            'eggexecutable = my_package.some_module:main_func',
        ]
    }
)
```

Any eggs built from the above setup script will include a short executable prelude that imports and calls `main_func()` from `my_package.some_module`. The prelude can be run on Unix-like platforms (including Mac and Linux) by invoking the egg with `/bin/sh`, or by enabling execute permissions on the `.egg` file. For the executable prelude to run, the appropriate version of Python must be available via the `PATH` environment variable, under its "long" name. That is, if the egg is built for Python 2.3, there must be a `python2.3` executable present in a directory on `PATH`.

This feature is primarily intended to support ez_setup the installation of setuptools itself on non-Windows platforms, but may also be useful for other projects as well.

**IMPORTANT NOTE:** Eggs with an "eggexecutable" header cannot be renamed, or invoked via symlinks. They *must* be invoked using their original filename, in order to ensure that, once running, `pkg_resources` will know what project and version is in use. The header script will check this and exit with an error if the `.egg` file has been renamed or is invoked via a symlink that changes its base name.

Declaring Dependencies
====================

``setuptools`` supports automatically installing dependencies when a package is installed, and including information about dependencies in Python Eggs (so that package management tools like EasyInstall can use the information).
``setuptools`` and ``pkg_resources`` use a common syntax for specifying a project's required dependencies. This syntax consists of a project's PyPI name, optionally followed by a comma-separated list of "extras" in square brackets, optionally followed by a comma-separated list of version specifiers. A version specifier is one of the operators ```<```, ```>```, ```<=```, ```>=```, ```==```, or ```!=```, followed by a version identifier. Tokens may be separated by whitespace, but any whitespace or nonstandard characters within a project name or version identifier must be replaced with ```-```.

Version specifiers for a given project are internally sorted into ascending version order, and used to establish what ranges of versions are acceptable. Adjacent redundant conditions are also consolidated (e.g. ```>1, >2``` becomes ```>1```, and ```<2, <3``` becomes ```<3```). ```!=``` versions are excised from the ranges they fall within. A project's version is then checked for membership in the resulting ranges. (Note that providing conflicting conditions for the same version (e.g. `"<2,>=2"` or `"==2,!=2"`) is meaningless and may therefore produce bizarre results.)

Here are some example requirement specifiers:

```
docutils >= 0.3

# comment lines and \ continuations are allowed in requirement strings
BazSpam ==1.1, ==1.2, ==1.3, ==1.4, ==1.5, 
    ==1.6, ==1.7 # and so are line-end comments

PEAK[FastCGI, reST]>=0.5a4

setuptools==0.5a7
```

The simplest way to include requirement specifiers is to use the ```install_requires``` argument to ```setup()```. It takes a string or list of strings containing requirement specifiers. If you include more than one requirement in a string, each requirement must begin on a new line.

This has three effects:

1. When your project is installed, either by using EasyInstall, ```setup.py install```, or ```setup.py develop```, all of the dependencies not already installed will be located (via PyPI), downloaded, built (if necessary), and installed.

2. Any scripts in your project will be installed with wrappers that verify the availability of the specified dependencies at runtime, and ensure that the correct versions are added to ```sys.path``` (e.g. if multiple versions have been installed).

3. Python Egg distributions will include a metadata file listing the
dependencies.

Note, by the way, that if you declare your dependencies in `setup.py`, you do *not* need to use the `require()` function in your scripts or modules, as long as you either install the project or use `setup.py develop` to do development work on it. (See "Development Mode" below for more details on using `setup.py develop`.)

Dependencies that aren't in PyPI
--------------------------------

If your project depends on packages that aren't registered in PyPI, you may still be able to depend on them, as long as they are available for download as:

- an egg, in the standard distutils `sdist` format,
- a single ``.py` file, or
- a VCS repository (Subversion, Mercurial, or Git).

You just need to add some URLs to the `dependency_links` argument to `setup()`.

The URLs must be either:

1. direct download URLs,
2. the URLs of web pages that contain direct download links, or
3. the repository's URL

In general, it's better to link to web pages, because it is usually less complex to update a web page than to release a new version of your project. You can also use a SourceForge `showfiles.php` link in the case where a package you depend on is distributed via SourceForge.

If you depend on a package that's distributed as a single ``.py` file, you must include an `#egg=project-version` suffix to the URL, to give a project name and version number. (Be sure to escape any dashes in the name or version by replacing them with underscores.) EasyInstall will recognize this suffix and automatically create a trivial `setup.py` to wrap the single ``.py` file as an egg.

In the case of a VCS checkout, you should also append `#egg=project-version` in order to identify for what package that checkout should be used. You can append `@REV` to the URL's path (before the fragment) to specify a revision. Additionally, you can also force the VCS being used by prepending the URL with a certain prefix. Currently available are:

- `svn+URL` for Subversion,
- `git+URL` for Git, and
- `hg+URL` for Mercurial

A more complete example would be:

```
```
Be careful with the version. It should match the one inside the project files.
If you want to disregard the version, you have to omit it both in the
`requires` and in the URL’s fragment.

This will do a checkout (or a clone, in Git and Mercurial parlance) to a
temporary folder and run `setup.py bdist_egg`.

The `dependency_links` option takes the form of a list of URL strings. For
eexample, the below will cause EasyInstall to search the specified page for
eggs or source distributions, if the package’s dependencies aren’t already
installed:

```python
setup(
    ...
    dependency_links = [
        "http://peak.telecommunity.com/snapshots/
    ],
)
```

.. _Declaring Extras:

Declaring "Extras" (optional features with their own dependencies)
---------------------------------------------------------------------

Sometimes a project has "recommended" dependencies, that are not required for
all uses of the project. For example, a project might offer optional PDF
output if ReportLab is installed, and reStructuredText support if docutils is
installed. These optional features are called "extras", and setuptools allows
you to define their requirements as well. In this way, other projects that
require these optional features can force the additional requirements to be
installed, by naming the desired extras in their `install_requires`.

For example, let’s say that Project A offers optional PDF and reST support:

```python
setup(
    name="Project-A",
    ...
    extras_require = {
        'PDF': ["ReportLab>=1.2", "RXP"],
```
As you can see, the `extras_require` argument takes a dictionary mapping names of "extra" features, to strings or lists of strings describing those features' requirements. These requirements will *not* be automatically installed unless another package depends on them (directly or indirectly) by including the desired "extras" in square brackets after the associated project name. (Or if the extras were listed in a requirement spec on the EasyInstall command line.)

Extras can be used by a project's `entry points` to specify dynamic dependencies. For example, if Project A includes a "rst2pdf" script, it might declare it like this, so that the "PDF" requirements are only resolved if the "rst2pdf" script is run::

```python
setup(
    name="Project-A",
    ...
    entry_points = {
        'console_scripts': [
            'rst2pdf = project_a.tools.pdfgen [PDF]',
            'rst2html = project_a.tools.htmlgen',
            # more script entry points ...
        ],
    }
)
```

Projects can also use another project's extras when specifying dependencies. For example, if project B needs "project A" with PDF support installed, it might declare the dependency like this::

```python
setup(
    name="Project-B",
    install_requires = ["Project-A[PDF]"],
    ...
)
```

This will cause ReportLab to be installed along with project A, if project B is installed -- even if project A was already installed. In this way, a project can encapsulate groups of optional "downstream dependencies" under a feature name, so that packages that depend on it don't have to know what the downstream dependencies are. If a later version of Project A builds in PDF support and no longer needs ReportLab, or if it ends up needing other dependencies besides ReportLab in order to provide PDF support, Project B's setup information does not need to change, but the right packages will still be installed if needed.
Note, by the way, that if a project ends up not needing any other packages to support a feature, it should keep an empty requirements list for that feature in its `extras_require` argument, so that packages depending on that feature don't break (due to an invalid feature name). For example, if Project A above builds in PDF support and no longer needs ReportLab, it could change its setup to this::

```python
setup(
    name="Project-A",
    ...
    extras_require = {
        'PDF': [],
        'reST': ["docutils>=0.3"],
    }
)
```

so that Package B doesn't have to remove the `[PDF]` from its requirement specifier.

Including Data Files
---------------------

The distutils have traditionally allowed installation of "data files", which are placed in a platform-specific location. However, the most common use case for data files distributed with a package is for use *by* the package, usually by including the data files in the package directory.

Setuptools offers three ways to specify data files to be included in your packages. First, you can simply use the `include_package_data` keyword, e.g.::

```python
from setuptools import setup, find_packages
setup(
    ...
    include_package_data = True
)
```

This tells setuptools to install any data files it finds in your packages. The data files must be specified via the distutils' `MANIFEST.in` file. (They can also be tracked by a revision control system, using an appropriate plugin. See the section below on `Adding Support for Revision Control Systems` for information on how to write such plugins.)

If you want finer-grained control over what files are included (for example, if you have documentation files in your package directories and want to exclude them from installation), then you can also use the `package_data` keyword, e.g.::

```python
from setuptools import setup, find_packages
setup(
    ...
    package_data = {
        'project': ['datafiles/*.txt'],
    }
)
```
from setuptools import setup, find_packages

setup(

    ...

    package_data = {

        # If any package contains *.txt or *.rst files, include them:
        "": ["*.txt", "*.rst"],

        # And include any *.msg files found in the 'hello' package, too:
        "hello": ["*.msg"],

    }

)

The `package_data` argument is a dictionary that maps from package names to lists of glob patterns. The globs may include subdirectory names, if the data files are contained in a subdirectory of the package. For example, if the package tree looks like this::

    setup.py
    src/
    mypkg/
        __init__.py
        mypkg.txt
    data/
        somefile.dat
        otherdata.dat

The setuptools setup file might look like this::

    from setuptools import setup, find_packages

    setup(
    ...
        packages = find_packages('src'),  # include all packages under src
        package_dir = {'':'src'},   # tell distutils packages are under src

        package_data = {

            # If any package contains *.txt files, include them:
            "": ["*.txt"],

            # And include any *.dat files found in the 'data' subdirectory
            # of the 'mypkg' package, also:
            "mypkg": ["data/*.dat"],

        }
    )

Notice that if you list patterns in `package_data` under the empty string, these patterns are used to find files in every package, even ones that also have their own patterns listed. Thus, in the above example, the `mypkg.txt` file gets included even though it's not listed in the patterns for `mypkg`.
Also notice that if you use paths, you *must* use a forward slash (`/`) as the path separator, even if you are on Windows. Setuptools automatically converts slashes to appropriate platform-specific separators at build time.

(Note: although the `package_data` argument was previously only available in `setuptools`, it was also added to the Python `distutils` package as of Python 2.4; there is some documentation for the feature available on the python.org website. If using the setuptools-specific `include_package_data` argument, files specified by `package_data` will *not* be automatically added to the manifest unless they are listed in the MANIFEST.in file.)

http://docs.python.org/dist/node11.html

Sometimes, the `include_package_data` or `package_data` options alone aren't sufficient to precisely define what files you want included. For example, you may want to include package README files in your revision control system and source distributions, but exclude them from being installed. So, setuptools offers an `exclude_package_data` option as well, that allows you to do things like this::

```python
from setuptools import setup, find_packages
setup(
    ...
    packages = find_packages('src'), # include all packages under src
    package_dir = {'': 'src'},     # tell distutils packages are under src

    include_package_data = True,   # include everything in source control

    # ...but exclude README.txt from all packages
    exclude_package_data = { '' : ['README.txt'] },
)
```

The `exclude_package_data` option is a dictionary mapping package names to lists of wildcard patterns, just like the `package_data` option. And, just as with that option, a key of `''` will apply the given pattern(s) to all packages. However, any files that match these patterns will be *excluded* from installation, even if they were listed in `package_data` or were included as a result of using `include_package_data`.

In summary, the three options allow you to:

`include_package_data`
Accept all data files and directories matched by `MANIFEST.in`.

`package_data`
Specify additional patterns to match files and directories that may or may not be matched by `MANIFEST.in` or found in source control.
``exclude_package_data``

Specify patterns for data files and directories that should *not* be included when a package is installed, even if they would otherwise have been included due to the use of the preceding options.

NOTE: Due to the way the distutils build process works, a data file that you include in your project and then stop including may be "orphaned" in your project's build directories, requiring you to run ```setup.py clean --all``` to fully remove them. This may also be important for your users and contributors if they track intermediate revisions of your project using Subversion; be sure to let them know when you make changes that remove files from inclusion so they can run ```setup.py clean --all```.

Accessing Data Files at Runtime
--------------------------------

Typically, existing programs manipulate a package's `__file__` attribute in order to find the location of data files. However, this manipulation isn't compatible with PEP 302-based import hooks, including importing from zip files and Python Eggs. It is strongly recommended that, if you are using data files, you should use the `Resource Management API`_ of `pkg_resources` to access them. The `pkg_resources` module is distributed as part of setuptools, so if you're using setuptools to distribute your package, there is no reason not to use its resource management API. See also `Accessing Package Resources`_ for a quick example of converting code that uses `__file__` to use `pkg_resources` instead.

.. _Resource Management API: http://peak.telecommunity.com/DevCenter/PythonEggs#resource-management
.. _Accessing Package Resources: http://peak.telecommunity.com/DevCenter/PythonEggs#accessing-package-resources

Non-Package Data Files
---------------------

The `distutils` normally install general "data files" to a platform-specific location (e.g. `/usr/share`). This feature intended to be used for things like documentation, example configuration files, and the like. `setuptools` does not install these data files in a separate location, however. They are bundled inside the egg file or directory, alongside the Python modules and packages. The data files can also be accessed using the `Resource Management API`_, by specifying a `Requirement` instead of a package name::

```python
from pkg_resources import Requirement, resource_filename
filename = resource_filename(Requirement.parse("MyProject"),"sample.conf")
```

The above code will obtain the filename of the "sample.conf" file in the data
root of the "MyProject" distribution.

Note, by the way, that this encapsulation of data files means that you can't actually install data files to some arbitrary location on a user's machine; this is a feature, not a bug. You can always include a script in your distribution that extracts and copies your documentation or data files to a user-specified location, at their discretion. If you put related data files in a single directory, you can use `resource_filename()` with the directory name to get a filesystem directory that then can be copied with the `shutil` module. (Even if your package is installed as a zipfile, calling `resource_filename()` on a directory will return an actual filesystem directory, whose contents will be that entire subtree of your distribution.)

(Of course, if you're writing a new package, you can just as easily place your data files or directories inside one of your packages, rather than using the distutils' approach. However, if you're updating an existing application, it may be simpler not to change the way it currently specifies these data files.)

Automatic Resource Extraction
-------------------------------

If you are using tools that expect your resources to be "real" files, or your project includes non-extension native libraries or other files that your C extensions expect to be able to access, you may need to list those files in the `eager_resources` argument to `setup()`, so that the files will be extracted together, whenever a C extension in the project is imported.

This is especially important if your project includes shared libraries other than distutils-built C extensions, and those shared libraries use file extensions other than `.dll`, `.so`, or `.dylib`, which are the extensions that setuptools 0.6a8 and higher automatically detects as shared libraries and adds to the `native_libs.txt` file for you. Any shared libraries whose names do not end with one of those extensions should be listed as `eager_resources`, because they need to be present in the filesystem when he C extensions that link to them are used.

The `pkg_resources` runtime for compressed packages will automatically extract *all* C extensions and `eager_resources` at the same time, whenever *any* C extension or eager resource is requested via the `resource_filename()` API. (C extensions are imported using `resource_filename()` internally.) This ensures that C extensions will see all of the "real" files that they expect to see.

Note also that you can list directory resource names in `eager_resources` as well, in which case the directory's contents (including subdirectories) will be extracted whenever any C extension or eager resource is requested.
Please note that if you're not sure whether you need to use this argument, you don't! It's really intended to support projects with lots of non-Python dependencies and as a last resort for crufty projects that can't otherwise handle being compressed. If your package is pure Python, Python plus data files, or Python plus C, you really don't need this. You've got to be using either C or an external program that needs "real" files in your project before there's any possibility of "eager_resources" being relevant to your project.

Extensible Applications and Frameworks
======================================

.. _Entry Points:

Dynamic Discovery of Services and Plugins
-----------------------------------------

``setuptools`` supports creating libraries that "plug in" to extensible applications and frameworks, by letting you register "entry points" in your project that can be imported by the application or framework.

For example, suppose that a blogging tool wants to support plugins that provide translation for various file types to the blog's output format. The framework might define an "entry point group" called ``blogtool.parsers``, and then allow plugins to register entry points for the file extensions they support.

This would allow people to create distributions that contain one or more parsers for different file types, and then the blogging tool would be able to find the parsers at runtime by looking up an entry point for the file extension (or mime type, or however it wants to).

Note that if the blogging tool includes parsers for certain file formats, it can register these as entry points in its own setup script, which means it doesn't have to special-case its built-in formats. They can just be treated the same as any other plugin's entry points would be.

If you're creating a project that plugs in to an existing application or framework, you'll need to know what entry points or entry point groups are defined by that application or framework. Then, you can register entry points in your setup script. Here are a few examples of ways you might register an ``.rst`` file parser entry point in the ``blogtool.parsers`` entry point group, for our hypothetical blogging tool:

```
setup(
    # ...
    entry_points = {'blogtool.parsers': '.rst = some_module:SomeClass'}
```

setup(  
    # ...
    entry_points = {'blogtool.parsers': ['rst = some_module:a_func']}
)

setup(  
    # ...
    entry_points = ""
    [blogtool.parsers]
      .rst = some.nested.module:SomeClass.some_classmethod [reST]
    """,
    extras_require = dict(reST = "Docutils>=0.3.5")
)

The `entry_points` argument to `setup()` accepts either a string with `ini`-style sections, or a dictionary mapping entry point group names to either strings or lists of strings containing entry point specifiers. An entry point specifier consists of a name and value, separated by an `=` sign. The value consists of a dotted module name, optionally followed by a `:` and a dotted identifier naming an object within the module. It can also include a bracketed list of "extras" that are required for the entry point to be used. When the invoking application or framework requests loading of an entry point, any requirements implied by the associated extras will be passed to `pkg_resources.require()`, so that an appropriate error message can be displayed if the needed package(s) are missing. (Of course, the invoking app or framework can ignore such errors if it wants to make an entry point optional if a requirement isn't installed.)

Defining Additional Metadata
----------------------------

Some extensible applications and frameworks may need to define their own kinds of metadata to include in eggs, which they can then access using the `pkg_resources` metadata APIs. Ordinarily, this is done by having plugin developers include additional files in their `ProjectName.egg-info` directory. However, since it can be tedious to create such files by hand, you may want to create a distutils extension that will create the necessary files from arguments to `setup()`, in much the same way that `setuptools` does for many of the `setup()` arguments it adds. See the section below on `Creating distutils Extensions` for more details, especially the subsection on `Adding new EGG-INFO Files`.

"Development Mode"
====================
Under normal circumstances, the `distutils` assume that you are going to build a distribution of your project, not use it in its "raw" or "unbuilt" form. If you were to use the `distutils` that way, you would have to rebuild and reinstall your project every time you made a change to it during development.

Another problem that sometimes comes up with the `distutils` is that you may need to do development on two related projects at the same time. You may need to put both projects' packages in the same directory to run them, but need to keep them separate for revision control purposes. How can you do this?

Setuptools allows you to deploy your projects for use in a common directory or staging area, but without copying any files. Thus, you can edit each project's code in its checkout directory, and only need to run build commands when you change a project's C extensions or similarly compiled files. You can even deploy a project into another project's checkout directory, if that's your preferred way of working (as opposed to using a common independent staging area or the site-packages directory).

To do this, use the `setup.py develop` command. It works very similarly to `setup.py install` or the EasyInstall tool, except that it doesn't actually install anything. Instead, it creates a special `*.egg-link` file in the deployment directory, that links to your project's source code. And, if your deployment directory is Python's `site-packages` directory, it will also update the `easy-install.pth` file to include your project's source code, thereby making it available on `sys.path` for all programs using that Python installation.

If you have enabled the `use_2to3` flag, then of course the `*.egg-link` will not link directly to your source code when run under Python 3, since that source code would be made for Python 2 and not work under Python 3. Instead the `setup.py develop` will build Python 3 code under the `build` directory, and link there. This means that after doing code changes you will have to run `setup.py build` before these changes are picked up by your Python 3 installation.

In addition, the `develop` command creates wrapper scripts in the target script directory that will run your in-development scripts after ensuring that all your `install_requires` packages are available on `sys.path`.

You can deploy the same project to multiple staging areas, e.g. if you have multiple projects on the same machine that are sharing the same project you're doing development work.

When you're done with a given development task, you can remove the project source from a staging area using `setup.py develop --uninstall`, specifying the desired staging area if it's not the default.
There are several options to control the precise behavior of the `develop` command; see the section on the `develop` command below for more details.

Note that you can also apply setuptools commands to non-setuptools projects, using commands like this:

```
python -c "import setuptools; execfile('setup.py')" develop
```

That is, you can simply list the normal setup commands and options following the quoted part.

Distributing a `setuptools`-based project
==========================================

Using `setuptools`... Without bundling it!
------------------------------------------

Your users might not have `setuptools` installed on their machines, or even if they do, it might not be the right version. Fixing this is easy; just download `ez_setup.py`, and put it in the same directory as your `setup.py` script. (Be sure to add it to your revision control system, too.) Then add these two lines to the very top of your setup script, before the script imports anything from setuptools:

```
.. code-block:: python

    import ez_setup
    ez_setup.use_setuptools()
```

That's it. The `ez_setup` module will automatically download a matching version of `setuptools` from PyPI, if it isn't present on the target system. Whenever you install an updated version of setuptools, you should also update your projects' `ez_setup.py` files, so that a matching version gets installed on the target machine(s).

By the way, setuptools supports the new PyPI "upload" command, so you can use `setup.py sdist upload` or `setup.py bdist_egg upload` to upload your source or egg distributions respectively. Your project's current version must be registered with PyPI first, of course; you can use `setup.py register` to do that. Or you can do it all in one step, e.g. `setup.py register sdist bdist_egg upload` will register the package, build source and egg distributions, and then upload them both to PyPI, where they'll be easily found by other projects that depend on them.

(By the way, if you need to distribute a specific version of `setuptools`, you can specify the exact version and base download URL as parameters to the
``use_setuptools()`` function. See the function's docstring for details.

What Your Users Should Know
----------------------------

In general, a setuptools-based project looks just like any distutils-based project -- as long as your users have an internet connection and are installing to ``site-packages``, that is. But for some users, these conditions don't apply, and they may become frustrated if this is their first encounter with a setuptools-based project. To keep these users happy, you should review the following topics in your project's installation instructions, if they are relevant to your project and your target audience isn't already familiar with setuptools and ``easy_install``.

Network Access
---------------
If your project is using ``ez_setup``, you should inform users of the need to either have network access, or to preinstall the correct version of setuptools using the `EasyInstall installation instructions`_. Those instructions also have tips for dealing with firewalls as well as how to manually download and install setuptools.

Custom Installation Locations
----------------------------
You should inform your users that if they are installing your project to somewhere other than the main ``site-packages`` directory, they should first install setuptools using the instructions for `Custom Installation Locations`_, before installing your project.

Your Project's Dependencies
---------------------------
If your project depends on other projects that may need to be downloaded from PyPI or elsewhere, you should list them in your installation instructions, or tell users how to find out what they are. While most users will not need this information, any users who don't have unrestricted internet access may have to find, download, and install the other projects manually. (Note, however, that they must still install those projects using ``easy_install``, or your project will not know they are installed, and your setup script will try to download them again.)

If you want to be especially friendly to users with limited network access, you may wish to build eggs for your project and its dependencies, making them all available for download from your site, or at least create a page with links to all of the needed eggs. In this way, users with limited network access can manually download all the eggs to a single directory, then use the ``-f`` option of ``easy_install`` to specify the directory to find eggs in. Users who have full network access can just use ``-f`` with the URL of your download page, and ``easy_install`` will find all the needed eggs using your links directly. This is also useful when your target audience isn't able to compile packages (e.g. most Windows users)
and your package or some of its dependencies include C code.

Revision Control System Users and Co-Developers

Users and co-developers who are tracking your in-development code using a revision control system should probably read this manual's sections regarding such development. Alternately, you may wish to create a quick-reference guide containing the tips from this manual that apply to your particular situation. For example, if you recommend that people use `setup.py develop` when tracking your in-development code, you should let them know that this needs to be run after every update or commit.

Similarly, if you remove modules or data files from your project, you should remind them to run `setup.py clean --all` and delete any obsolete `*.pyc` or `*.pyo`. (This tip applies to the distutils in general, not just setuptools, but not everybody knows about them; be kind to your users by spelling out your project's best practices rather than leaving them guessing.)

Creating System Packages

Some users want to manage all Python packages using a single package manager, and sometimes that package manager isn't `easy_install`! Setuptools currently supports `bdist_rpm`, `bdist_wininst`, and `bdist_dumb` formats for system packaging. If a user has a locally-installed `bdist` packaging tool that internally uses the distutils `install` command, it should be able to work with `setuptools`. Some examples of "bdist" formats that this should work with include the `bdist_nsi` and `bdist_msi` formats for Windows.

However, packaging tools that build binary distributions by running `setup.py install` on the command line or as a subprocess will require modification to work with setuptools. They should use the `--single-version-externally-managed` option to the `install` command, combined with the standard `--root` or `--record` options. See the `install command` documentation below for more details. The `bdist_deb` command is an example of a command that currently requires this kind of patching to work with setuptools.

If you or your users have a problem building a usable system package for your project, please report the problem via the mailing list so that either the "bdist" tool in question or setuptools can be modified to resolve the issue.

Setting the `zip_safe` flag

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

For maximum performance, Python packages are best installed as zip files. Not all packages, however, are capable of running in compressed form, because
they may expect to be able to access either source code or data files as normal operating system files. So, ``setuptools`` can install your project as a zipfile or a directory, and its default choice is determined by the project's ``zip_safe`` flag.

You can pass a True or False value for the ``zip_safe`` argument to the ``setup()`` function, or you can omit it. If you omit it, the ``bdist_egg`` command will analyze your project's contents to see if it can detect any conditions that would prevent it from working in a zipfile. It will output notices to the console about any such conditions that it finds.

Currently, this analysis is extremely conservative: it will consider the project unsafe if it contains any C extensions or datafiles whatsoever. This does *not* mean that the project can't or won't work as a zipfile! It just means that the ``bdist_egg`` authors aren't yet comfortable asserting that the project *will* work. If the project contains no C or data files, and does no ``__file__`` or ``__path__`` introspection or source code manipulation, then there is an extremely solid chance the project will work when installed as a zipfile. (And if the project uses ``pkg_resources`` for all its data file access, then C extensions and other data files shouldn't be a problem at all. See the `Accessing Data Files at Runtime` section above for more information.)

However, if ``bdist_egg`` can't be *sure* that your package will work, but you've checked over all the warnings it issued, and you are either satisfied it *will* work (or if you want to try it for yourself), then you should set ``zip_safe`` to ``True`` in your ``setup()`` call. If it turns out that it doesn't work, you can always change it to ``False``, which will force ``setuptools`` to install your project as a directory rather than as a zipfile.

Of course, the end-user can still override either decision, if they are using EasyInstall to install your package. And, if you want to override for testing purposes, you can just run ``setup.py easy_install --zip-ok .`` or ``setup.py easy_install --always-unzip .`` in your project directory, to install the package as a zipfile or directory, respectively.

In the future, as we gain more experience with different packages and become more satisfied with the robustness of the ``pkg_resources`` runtime, the "zip safety" analysis may become less conservative. However, we strongly recommend that you determine for yourself whether your project functions correctly when installed as a zipfile, correct any problems if you can, and then make an explicit declaration of ``True`` or ``False`` for the ``zip_safe`` flag, so that it will not be necessary for ``bdist_egg`` or ``EasyInstall`` to try to guess whether your project can work as a zipfile.

Namespace Packages

---------------
Sometimes, a large package is more useful if distributed as a collection of smaller eggs. However, Python does not normally allow the contents of a package to be retrieved from more than one location. "Namespace packages" are a solution for this problem. When you declare a package to be a namespace package, it means that the package has no meaningful contents in its ``__init__.py``, and that it is merely a container for modules and subpackages.

The ``pkg_resources`` runtime will then automatically ensure that the contents of namespace packages that are spread over multiple eggs or directories are combined into a single "virtual" package.

The ``namespace_packages`` argument to ``setup()`` lets you declare your project's namespace packages, so that they will be included in your project's metadata. The argument should list the namespace packages that the egg participates in. For example, the ZopeInterface project might do this::

```
setup(
    # ...
    namespace_packages = ['zope'],
)
```

because it contains a ``zope.interface`` package that lives in the ``zope`` namespace package. Similarly, a project for a standalone ``zope.publisher`` would also declare the ``zope`` namespace package. When these projects are installed and used, Python will see them both as part of a "virtual" ``zope`` package, even though they will be installed in different locations.

Namespace packages don't have to be top-level packages. For example, Zope 3's ``zope.app`` package is a namespace package, and in the future PEAK's ``peak.util`` package will be too.

Note, by the way, that your project's source tree must include the namespace packages' ``__init__.py`` files (and the ``__init__.py`` of any parent packages), in a normal Python package layout. These ``__init__.py`` files *must* contain the line:

```
__import__('pkg_resources').declare_namespace(__name__)
```

This code ensures that the namespace package machinery is operating and that the current package is registered as a namespace package.

You must NOT include any other code and data in a namespace package's ``__init__.py``. Even though it may appear to work during development, or when projects are installed as ``.egg`` files, it will not work when the projects are installed using "system" packaging tools -- in such cases the ``__init__.py`` files will not be installed, let alone executed.

You must include the ``declare_namespace()`` line in the ``__init__.py`` of
*every* project that has contents for the namespace package in question, in order to ensure that the namespace will be declared regardless of which project's copy of ``__init__.py`` is loaded first. If the first loaded ``__init__.py`` doesn't declare it, it will never *be* declared, because no other copies will ever be loaded!

**TRANSITIONAL NOTE**

~~~~~~~~~~~~~~~

Setuptools automatically calls ``declare_namespace()`` for you at runtime, but future versions may *not*. This is because the automatic declaration feature has some negative side effects, such as needing to import all namespace packages during the initialization of the ``pkg_resources`` runtime, and also the need for ``pkg_resources`` to be explicitly imported before any namespace packages work at all. In some future releases, you'll be responsible for including your own declaration lines, and the automatic declaration feature will be dropped to get rid of the negative side effects.

During the remainder of the current development cycle, therefore, setuptools will warn you about missing ``declare_namespace()`` calls in your ``__init__.py`` files, and you should correct these as soon as possible before the compatibility support is removed. Namespace packages without declaration lines will not work correctly once a user has upgraded to a later version, so it's important that you make this change now in order to avoid having your code break in the field. Our apologies for the inconvenience, and thank you for your patience.

**Tagging and "Daily Build" or "Snapshot" Releases**

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

When a set of related projects are under development, it may be important to track finer-grained version increments than you would normally use for e.g. "stable" releases. While stable releases might be measured in dotted numbers with alpha/beta/etc. status codes, development versions of a project often need to be tracked by revision or build number or even build date. This is especially true when projects in development need to refer to one another, and therefore may literally need an up-to-the-minute version of something!

To support these scenarios, setuptools allows you to "tag" your source and egg distributions by adding one or more of the following to the project's "official" version identifier:

* A manually-specified pre-release tag, such as "build" or "dev", or a manually-specified post-release tag, such as a build or revision number (``--tag-build=STRING, -bSTRING``)
* A "last-modified revision number" string generated automatically from Subversion's metadata (assuming your project is being built from a Subversion "working copy") (``--tag-svn-revision, -r``)

* An 8-character representation of the build date (``--tag-date, -d``), as a postrelease tag

You can add these tags by adding ``egg_info`` and the desired options to the command line ahead of the ``sdist`` or ``bdist`` commands that you want to generate a daily build or snapshot for. See the section below on the `egg_info`_ command for more details.

(Also, before you release your project, be sure to see the section above on `Specifying Your Project's Version`_ for more information about how pre- and post-release tags affect how setuptools and EasyInstall interpret version numbers. This is important in order to make sure that dependency processing tools will know which versions of your project are newer than others.)

Finally, if you are creating builds frequently, and either building them in a downloadable location or are copying them to a distribution server, you should probably also check out the `rotate`_ command, which lets you automatically delete all but the N most-recently-modified distributions matching a glob pattern. So, you can use a command line like::

```
setup.py egg_info -rbDEV bdist_egg rotate -m.egg -k3
```

to build an egg whose version info includes 'DEV-rNNNN' (where NNNN is the most recent Subversion revision that affected the source tree), and then delete any egg files from the distribution directory except for the three that were built most recently.

If you have to manage automated builds for multiple packages, each with different tagging and rotation policies, you may also want to check out the `alias`_ command, which would let each package define an alias like `daily` that would perform the necessary tag, build, and rotate commands. Then, a simpler script or cron job could just run ``setup.py daily`` in each project directory. (And, you could also define sitewide or per-user default versions of the `daily` alias, so that projects that didn't define their own would use the appropriate defaults.)

Generating Source Distributions
--------------------------------

``setupools`` enhances the distutils' default algorithm for source file selection with pluggable endpoints for looking up files to include. If you are using a revision control system, and your source distributions only need to
include files that you're tracking in revision control, use a corresponding plugin instead of writing a ``MANIFEST.in`` file. See the section below on `Adding Support for Revision Control Systems`_ for information on plugins.

If you need to include automatically generated files, or files that are kept in an unsupported revision control system, you'll need to create a ``MANIFEST.in`` file to specify any files that the default file location algorithm doesn't catch. See the distutils documentation for more information on the format of the ``MANIFEST.in`` file.

But, be sure to ignore any part of the distutils documentation that deals with ``MANIFEST`` or how it's generated from ``MANIFEST.in``; setuptools shields you from these issues and doesn't work the same way in any case. Unlike the distutils, setuptools regenerates the source distribution manifest file every time you build a source distribution, and it builds it inside the project's `.egg-info` directory, out of the way of your main project directory. You therefore need not worry about whether it is up-to-date or not.

Indeed, because setuptools' approach to determining the contents of a source distribution is so much simpler, its `sdist` command omits nearly all of the options that the distutils' more complex `sdist` process requires. For all practical purposes, you'll probably use only the `--formats` option, if you use any option at all.

Making your package available for EasyInstall
---------------------------------------------

If you use the `register` command (`setup.py register`) to register your package with PyPI, that's most of the battle right there. (See the `docs for the register command`_ for more details.)

.. _docs for the register command: http://docs.python.org/dist/package-index.html

If you also use the `upload` command to upload actual distributions of your package, that's even better, because EasyInstall will be able to find and download them directly from your project's PyPI page.

However, there may be reasons why you don't want to upload distributions to PyPI, and just want your existing distributions (or perhaps a Subversion checkout) to be used instead.

So here's what you need to do before running the `register` command. There are three `setup()` arguments that affect EasyInstall:

``url`` and ``download_url``
These become links on your project's PyPI page. EasyInstall will examine them to see if they link to a package ("primary links"), or whether they are
HTML pages. If they're HTML pages, EasyInstall scans all HREF's on the page for primary links.

``long_description``

EasyInstall will check any URLs contained in this argument to see if they are primary links.

A URL is considered a "primary link" if it is a link to a .tar.gz, .tgz, .zip, .egg, .egg.zip, .tar.bz2, or .exe file, or if it has an ``#egg=project`` or ``#egg=project-version`` fragment identifier attached to it. EasyInstall attempts to determine a project name and optional version number from the text of a primary link *without* downloading it. When it has found all the primary links, EasyInstall will select the best match based on requested version, platform compatibility, and other criteria.

So, if your ``url`` or ``download_url`` point either directly to a downloadable source distribution, or to HTML page(s) that have direct links to such, then EasyInstall will be able to locate downloads automatically. If you want to make Subversion checkouts available, then you should create links with either ``#egg=project`` or ``#egg=project-version`` added to the URL. You should replace ``project`` and ``version`` with the values they would have in an egg filename. (Be sure to actually generate an egg and then use the initial part of the filename, rather than trying to guess what the escaped form of the project name and version number will be.)

Note that Subversion checkout links are of lower precedence than other kinds of distributions, so EasyInstall will not select a Subversion checkout for downloading unless it has a version included in the ``#egg=`` suffix, and it's a higher version than EasyInstall has seen in any other links for your project.

As a result, it's a common practice to use mark checkout URLs with a version of "dev" (i.e., ``#egg=projectname-dev``), so that users can do something like this:

```bash
easy_install --editable projectname==dev
```

in order to check out the in-development version of `projectname`.

Managing "Continuous Releases“ Using Subversion

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

If you expect your users to track in-development versions of your project via Subversion, there are a few additional steps you should take to ensure that things work smoothly with EasyInstall. First, you should add the following to your project's `setup.cfg` file:
This will tell ``setuptools`` to generate package version numbers like
``1.0a1.dev-r1263``, which will be considered to be an *older* release than
``1.0a1``. Thus, when you actually release ``1.0a1``, the entire egg
infrastructure (including ``setuptools``., ``pkg_resources`` and EasyInstall)
will know that ``1.0a1`` supersedes any interim snapshots from Subversion, and
handle upgrades accordingly.

(Note: the project version number you specify in `setup.py` should always be
the *next* version of your software, not the last released version.
Alternately, you can leave out the `tag_build=.dev`, and always use the
*last* release as a version number, so that your post-1.0 builds are labelled
``1.0-r1263``, indicating a post-1.0 patchlevel. Most projects so far,
however, seem to prefer to think of their project as being a future version
still under development, rather than a past version being patched. It is of
course possible for a single project to have both situations, using
post-release numbering on release branches, and pre-release numbering on the
trunk. But you don't have to make things this complex if you don't want to.)

Commonly, projects releasing code from Subversion will include a PyPI link to
their checkout URL (as described in the previous section) with an
``#egg=projectname-dev`` suffix. This allows users to request EasyInstall
to download ``projectname==dev`` in order to get the latest in-development
code. Note that if your project depends on such in-progress code, you may wish
to specify your ``install_requires`` (or other requirements) to include
``==dev``, e.g.:

.. code-block:: python

   install_requires = ["OtherProject>=0.2a1.dev-r143,==dev"]

The above example says, "I really want at least this particular development
revision number, but feel free to follow and use an `#egg=OtherProject-dev``
link if you find one". This avoids the need to have actual source or binary
distribution snapshots of in-development code available, just to be able to
depend on the latest and greatest a project has to offer.

A final note for Subversion development: if you are using SVN revision tags
as described in this section, it's a good idea to run `setup.py develop`
after each Subversion checkin or update, because your project's version number
will be changing, and your script wrappers need to be updated accordingly.

Also, if the project's requirements have changed, the `develop` command will
take care of fetching the updated dependencies, building changed extensions, etc. Be sure to also remind any of your users who check out your project from Subversion that they need to run ```setup.py develop``` after every update in order to keep their checkout completely in sync.

Making "Official" (Non-Snapshot) Releases
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

When you make an official release, creating source or binary distributions, you will need to override the tag settings from ```setup.cfg```, so that you don't end up registering versions like ```foobar-0.7a1.dev-r34832```. This is easy to do if you are developing on the trunk and using tags or branches for your releases - just make the change to ```setup.cfg``` after branching or tagging the release, so the trunk will still produce development snapshots.

Alternately, if you are not branching for releases, you can override the default version options on the command line, using something like::

    python setup.py egg_info -RDb "" sdist bdist_egg register upload

The first part of this command (```egg_info -RDb ""```) will override the configured tag information, before creating source and binary eggs, registering the project with PyPI, and uploading the files. Thus, these commands will use the plain version from your ```setup.py```, without adding the Subversion revision number or build designation string.

Of course, if you will be doing this a lot, you may wish to create a personal alias for this operation, e.g.::

    python setup.py alias -u release egg_info -RDb ""

You can then use it like this::

    python setup.py release sdist bdist_egg register upload

Or of course you can create more elaborate aliases that do all of the above. See the sections below on the ```egg_info``` and ```alias``` commands for more ideas.

Distributing Extensions compiled with Pyrex
-------------------------------------------

``setuptools`` includes transparent support for building Pyrex extensions, as long as you define your extensions using ``setuptools.Extension``, *not* ``distutils.Extension``. You must also not import anything from Pyrex in your setup script.
If you follow these rules, you can safely list `.pyx` files as the source of your `Extension` objects in the setup script. `setuptools` will detect at build time whether Pyrex is installed or not. If it is, then `setuptools` will use it. If not, then `setuptools` will silently change the `Extension` objects to refer to the `.c` counterparts of the `.pyx` files, so that the normal distutils C compilation process will occur.

Of course, for this to work, your source distributions must include the C code generated by Pyrex, as well as your original `.pyx` files. This means that you will probably want to include current `.c` files in your revision control system, rebuilding them whenever you check changes in for the `.pyx` source files. This will ensure that people tracking your project in a revision control system will be able to build it even if they don't have Pyrex installed, and that your source releases will be similarly usable with or without Pyrex.

-------------
Command Reference
-------------

.. _alias:

``alias`` - Define shortcuts for commonly used commands

``alias`` - Define shortcuts for commonly used commands

Sometimes, you need to use the same commands over and over, but you can't necessarily set them as defaults. For example, if you produce both development snapshot releases and "stable" releases of a project, you may want to put the distributions in different places, or use different `egg_info` tagging options, etc. In these cases, it doesn't make sense to set the options in a distutils configuration file, because the values of the options changed based on what you're trying to do.

setuptools therefore allows you to define "aliases" - shortcut names for an arbitrary string of commands and options, using `setup.py alias aliasname expansion`, where aliasname is the name of the new alias, and the remainder of the command line supplies its expansion. For example, this command defines a sitewide alias called "daily", that sets various `egg_info` tagging options:

```
setup.py alias --global-config daily egg_info --tag-svn-revision \
--tag-build=development
```

Once the alias is defined, it can then be used with other setup commands, e.g.::
setup.py daily bdist_egg # generate a daily-build .egg file
setup.py daily sdist # generate a daily-build source distro
setup.py daily sdist bdist_egg # generate both

The above commands are interpreted as if the word `daily` were replaced with `egg_info --tag-svn-revision --tag-build=development`.

Note that setuptools will expand each alias *at most once* in a given command line. This serves two purposes. First, if you accidentally create an alias loop, it will have no effect; you'll instead get an error message about an unknown command. Second, it allows you to define an alias for a command, that uses that command. For example, this (project-local) alias:

```bash
setup.py alias bdist_egg bdist_egg rotate -k1 -m.egg
```

redefines the `bdist_egg` command so that it always runs the `rotate` command afterwards to delete all but the newest egg file. It doesn't loop indefinitely on `bdist_egg` because the alias is only expanded once when used.

You can remove a defined alias with the `--remove` (or `-r`) option, e.g.:

```bash
setup.py alias --global-config --remove daily
```

would delete the "daily" alias we defined above.

Aliases can be defined on a project-specific, per-user, or sitewide basis. The default is to define or remove a project-specific alias, but you can use any of the `configuration file options` (listed under the `saveopts` command, below) to determine which distutils configuration file an aliases will be added to (or removed from).

Note that if you omit the "expansion" argument to the `alias` command, you'll get output showing that alias' current definition (and what configuration file it's defined in). If you omit the alias name as well, you'll get a listing of all current aliases along with their configuration file locations.

``bdist_egg`` - Create a Python Egg for the project

This command generates a Python Egg (`.egg` file) for the project. Python Eggs are the preferred binary distribution format for EasyInstall, because they are cross-platform (for "pure" packages), directly importable, and contain project metadata including scripts and information about the project's dependencies. They can be simply downloaded and added to `sys.path` directly, or they can be placed in a directory on `sys.path` and then
automatically discovered by the egg runtime system.

This command runs the `egg_info` command (if it hasn't already run) to update
the project's metadata (`.`.egg-info`) directory. If you have added any extra
metadata files to the `..egg-info` directory, those files will be included in
the new egg file's metadata directory, for use by the egg runtime system or by
any applications or frameworks that use that metadata.

You won't usually need to specify any special options for this command; just
use `bdist_egg` and you're done. But there are a few options that may be
occasionally useful:

```
--dist-dir=DIR, -d DIR``
Set the directory where the `.egg` file will be placed. If you don't supply this,
then the `--dist-dir` setting of the `bdist` command will be used, which is usually
a directory named `"dist"` in the project directory.

```
--plat-name=PLATFORM, -p PLATFORM``
Set the platform name string that will be embedded in the egg's filename
(assuming the egg contains C extensions). This can be used to override
the distutils default platform name with something more meaningful. Keep
in mind, however, that the egg runtime system expects to see eggs with
distutils platform names, so it may ignore or reject eggs with non-standard
platform names. Similarly, the EasyInstall program may ignore them when
searching web pages for download links. However, if you are
cross-compiling or doing some other unusual things, you might find a use
for this option.

```
--exclude-source-files``
Don't include any modules`..py` files in the egg, just compiled Python,
C, and data files. (Note that this doesn't affect any `..py` files in the
EGG-INFO directory or its subdirectories, since for example there may be
scripts with a `..py` extension which must still be retained.) We don't
recommend that you use this option except for packages that are being
bundled for proprietary end-user applications, or for "embedded" scenarios
where space is at an absolute premium. On the other hand, if your package
is going to be installed and used in compressed form, you might as well
exclude the source because Python's `traceback` module doesn't currently
understand how to display zipped source code anyway, or how to deal with
files that are in a different place from where their code was compiled.

There are also some options you will probably never need, but which are there
because they were copied from similar `bdist` commands used as an example for
creating this one. They may be useful for testing and debugging, however,
which is why we kept them:

```
--keep-temp, -k``
Keep the contents of the `--bdist-dir` tree around after creating the `.egg` file.

`--bdist-dir=DIR, -b DIR`
Set the temporary directory for creating the distribution. The entire contents of this directory are zipped to create the `.egg` file, after running various installation commands to copy the package's modules, data, and extensions here.

`--skip-build`
Skip doing any "build" commands; just go straight to the install-and-compress phases.

.. _develop:

``develop`` - Deploy the project source in "Development Mode"
=================================================================

This command allows you to deploy your project's source for use in one or more "staging areas" where it will be available for importing. This deployment is done in such a way that changes to the project source are immediately available in the staging area(s), without needing to run a build or install step after each change.

The `develop` command works by creating an `.egg-link` file (named for the project) in the given staging area. If the staging area is Python's `site-packages` directory, it also updates an `easy-install.pth` file so that the project is on `sys.path` by default for all programs run using that Python installation.

The `develop` command also installs wrapper scripts in the staging area (or a separate directory, as specified) that will ensure the project's dependencies are available on `sys.path` before running the project's source scripts. And, it ensures that any missing project dependencies are available in the staging area, by downloading and installing them if necessary.

Last, but not least, the `develop` command invokes the `build_ext -i` command to ensure any C extensions in the project have been built and are up-to-date, and the `egg_info` command to ensure the project's metadata is updated (so that the runtime and wrappers know what the project's dependencies are). If you make any changes to the project's setup script or C extensions, you should rerun the `develop` command against all relevant staging areas to keep the project's scripts, metadata and extensions up-to-date. Most other kinds of changes to your project should not require any build operations or rerunning `develop`, but keep in mind that even minor changes to the setup script (e.g. changing an entry point definition) require you to re-run the `develop` or `test` commands to keep the distribution updated.
Here are some of the options that the `develop` command accepts. Note that they affect the project's dependencies as well as the project itself, so if you have dependencies that need to be installed and you use `--exclude-scripts` (for example), the dependencies' scripts will not be installed either! For this reason, you may want to use EasyInstall to install the project's dependencies before using the `develop` command, if you need finer control over the installation options for dependencies.

`--uninstall, -u`

Un-deploy the current project. You may use the `--install-dir` or `-d` option to designate the staging area. The created `.egg-link` file will be removed, if present and it is still pointing to the project directory. The project directory will be removed from `easy-install.pth` if the staging area is Python's `site-packages` directory.

Note that this option currently does *not* uninstall script wrappers! You must uninstall them yourself, or overwrite them by using EasyInstall to activate a different version of the package. You can also avoid installing script wrappers in the first place, if you use the `--exclude-scripts` (aka `--x`) option when you run `develop` to deploy the project.

`--multi-version, -m`

"Multi-version" mode. Specifying this option prevents `develop` from adding an `easy-install.pth` entry for the project(s) being deployed, and if an entry for any version of a project already exists, the entry will be removed upon successful deployment. In multi-version mode, no specific version of the package is available for importing, unless you use `pkg_resources.require()` to put it on `sys.path`, or you are running a wrapper script generated by `setuptools` or EasyInstall. (In which case the wrapper script calls `require()` for you.)

Note that if you install to a directory other than `site-packages`, this option is automatically in effect, because `.pth` files can only be used in `site-packages` (at least in Python 2.3 and 2.4). So, if you use the `--install-dir` or `-d` option (or they are set via configuration file(s)) your project and its dependencies will be deployed in multi-version mode.

`--install-dir=DIR, -d DIR`

Set the installation directory (staging area). If this option is not directly specified on the command line or in a distutils configuration file, the distutils default installation location is used. Normally, this will be the `site-packages` directory, but if you are using distutils configuration files, setting things like `prefix` or `install_lib`, then those settings are taken into account when computing the default staging area.
``--script-dir=DIR, -s DIR``
Set the script installation directory. If you don't supply this option (via the command line or a configuration file), but you *have* supplied an ``--install-dir`` (via command line or config file), then this option defaults to the same directory, so that the scripts will be able to find their associated package installation. Otherwise, this setting defaults to the location where the distutils would normally install scripts, taking any distutils configuration file settings into account.

``--exclude-scripts, -x``
Don't deploy script wrappers. This is useful if you don't want to disturb existing versions of the scripts in the staging area.

``--always-copy, -a``
Copy all needed distributions to the staging area, even if they are already present in another directory on ``sys.path``. By default, if a requirement can be met using a distribution that is already available in a directory on ``sys.path``, it will not be copied to the staging area.

``--egg-path=DIR``
Force the generated `.egg-link` file to use a specified relative path to the source directory. This can be useful in circumstances where your installation directory is being shared by code running under multiple platforms (e.g. Mac and Windows) which have different absolute locations for the code under development, but the same *relative* locations with respect to the installation directory. If you use this option when installing, you must supply the same relative path when uninstalling.

In addition to the above options, the ``develop`` command also accepts all of the same options accepted by ``easy_install``. If you've configured any `easy_install` settings in your `setup.cfg` (or other distutils config files), the `develop` command will use them as defaults, unless you override them in a `[/develop]` section on the command line.

``easy_install`` - Find and install packages
============================================
This command runs the `EasyInstall tool <easy_install.html>` for you. It is exactly equivalent to running the `easy_install` command. All command line arguments following this command are consumed and not processed further by the distutils, so this must be the last command listed on the command line. Please see the EasyInstall documentation for the options reference and usage examples. Normally, there is no reason to use this command via the command line, as you can just use `easy_install` directly. It's only listed here so that you know it's a distutils command, which means that you can:
* create command aliases that use it,
* create distutils extensions that invoke it as a subcommand, and
* configure options for it in your ``setup.cfg`` or other distutils config
  files.

.. _egg_info:

``egg_info`` - Create egg metadata and set build tags
=====================================================

This command performs two operations: it updates a project's ``.egg-info``
metadata directory (used by the `bdist_egg`, `develop`, and `test`
commands), and it allows you to temporarily change a project's version string,
to support "daily builds" or "snapshot" releases. It is run automatically by
the `sdist`, `bdist_egg`, `develop`, `register`, and `test` commands
in order to update the project's metadata, but you can also specify it
explicitly in order to temporarily change the project's version string while
executing other commands. (It also generates the``.egg-info/SOURCES.txt``
manifest file, which is used when you are building source distributions.)

In addition to writing the core egg metadata defined by `setuptools` and
required by `pkg_resources`, this command can be extended to write other
metadata files as well, by defining entry points in the ``egg_info.writers``
group. See the section on `Adding new EGG-INFO Files` below for more details.
Note that using additional metadata writers may require you to include a
``setup_requires`` argument to `setup()` in order to ensure that the desired
writers are available on `sys.path`.

Release Tagging Options
-----------------------

The following options can be used to modify the project's version string for
all remaining commands on the setup command line. The options are processed
in the order shown, so if you use more than one, the requested tags will be
added in the following order:

``--tag-build=NAME, -b NAME``

Append NAME to the project's version string. Due to the way setuptools
processes "pre-release" version suffixes beginning with the letters "a"
through "e" (like "alpha", "beta", and "candidate"), you will usually want
to use a tag like ".build" or ".dev", as this will cause the version number
to be considered *lower* than the project's default version. (If you
want to make the version number *higher* than the default version, you can
always leave off --tag-build and then use one or both of the following
options.)
If you have a default build tag set in your `setup.cfg`, you can suppress it on the command line using `--tag-build=''` as an argument to the `egg_info` command.

``--tag-svn-revision, -r``

If the current directory is a Subversion checkout (i.e. has a `.svn` subdirectory), this appends a string of the form `-rNNNN` to the project's version string, where NNNN is the revision number of the most recent modification to the current directory, as obtained from the `svn info` command.

If the current directory is not a Subversion checkout, the command will look for a `PKG-INFO` file instead, and try to find the revision number from that, by looking for a `-rNNNN` string at the end of the version number. (This is so that building a package from a source distribution of a Subversion snapshot will produce a binary with the correct version number.)

If there is no `PKG-INFO` file, or the version number contained therein does not end with `-r` and a number, then `-r0` is used.

``--no-svn-revision, -R``

Don't include the Subversion revision in the version number. This option is included so you can override a default setting put in `setup.cfg`.

``--tag-date, -d``

Add a date stamp of the form `-YYYYMMDD` (e.g. `-20050528`) to the project's version number.

``--no-date, -D``

Don't include a date stamp in the version number. This option is included so you can override a default setting in `setup.cfg`.

(Note: Because these options modify the version number used for source and binary distributions of your project, you should first make sure that you know how the resulting version numbers will be interpreted by automated tools like EasyInstall. See the section above on `Specifying Your Project's Version` for an explanation of pre- and post-release tags, as well as tips on how to choose and verify a versioning scheme for your your project.)

For advanced uses, there is one other option that can be set, to change the location of the project's `.egg-info` directory. Commands that need to find the project's source directory or metadata should get it from this setting:

Other `egg_info` Options
------------------------
``--egg-base=SOURCEDIR, -e SOURCEDIR``

Specify the directory that should contain the .egg-info directory. This should normally be the root of your project's source tree (which is not necessarily the same as your project directory; some projects use a ``src`` or ``lib`` subdirectory as the source root). You should not normally need to specify this directory, as it is normally determined from the `package_dir` argument to the `setup()` function, if any. If there is no `package_dir` set, this option defaults to the current directory.

``egg_info`` Examples
---------------------

Creating a dated "nightly build" snapshot egg:

    python setup.py egg_info --tag-date --tag-build=DEV bdist_egg

Creating and uploading a release with no version tags, even if some default tags are specified in `setup.cfg`:

    python setup.py egg_info -RDb "" sdist bdist_egg register upload

(Notice that `egg_info` must always appear on the command line *before* any commands that you want the version changes to apply to.)

.. _install command:

``install`` - Run `easy_install` or old-style installation

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

The setuptools `install` command is basically a shortcut to run the `easy_install` command on the current project. However, for convenience in creating "system packages" of setuptools-based projects, you can also use this option:

``--single-version-externally-managed``

This boolean option tells the `install` command to perform an "old style" installation, with the addition of an `.egg-info` directory so that the installed project will still have its metadata available and operate normally. If you use this option, you *must* also specify the `--root` or `--record` options (or both), because otherwise you will have no way to identify and remove the installed files.

This option is automatically in effect when `install` is invoked by another distutils command, so that commands like `bdist_wininst` and `bdist_rpm` will create system packages of eggs. It is also automatically in effect if
you specify the ``--root`` option.

``install_egg_info`` - Install an `.egg-info` directory in `site-packages`
==============================================================================

Setuptools runs this command as part of `install` operations that use the
``--single-version-externally-managed`` options. You should not invoke it
directly; it is documented here for completeness and so that distutils
extensions such as system package builders can make use of it. This command
has only one option:

``--install-dir=DIR, -d DIR``
    The parent directory where the `.egg-info` directory will be placed.
    Defaults to the same as the ``--install-dir`` option specified for the
    `install_lib` command, which is usually the system `site-packages`
directory.

This command assumes that the `egg_info` command has been given valid options
via the command line or `setup.cfg`, as it will invoke the `egg_info`
command and use its options to locate the project's source `.egg-info`
directory.

.. _rotate:

``rotate`` - Delete outdated distribution files
===============================================

As you develop new versions of your project, your distribution (`dist`)-directory will gradually fill up with older source and/or binary distribution
files. The `rotate` command lets you automatically clean these up, keeping
only the N most-recently modified files matching a given pattern.

``--match=PATTERNLIST, -m PATTERNLIST``
    Comma-separated list of glob patterns to match. This option is *required*.
    The project name and `*-` is prepended to the supplied patterns, in order
to match only distributions belonging to the current project (in case you
have a shared distribution directory for multiple projects). Typically,
you will use a glob pattern like `*.zip` or `.egg` to match files of
the specified type. Note that each supplied pattern is treated as a
distinct group of files for purposes of selecting files to delete.

``--keep=COUNT, -k COUNT``
    Number of matching distributions to keep. For each group of files
identified by a pattern specified with the `--match` option, delete all
but the COUNT most-recently-modified files in that group. This option is
*required*. 
``--dist-dir=DIR, -d DIR``
Directory where the distributions are. This defaults to the value of the
``bdist`` command's ``--dist-dir`` option, which will usually be the
project's ``dist`` subdirectory.

**Example 1**: Delete all .tar.gz files from the distribution directory, except
for the 3 most recently modified ones::

    setup.py rotate --match=.tar.gz --keep=3

**Example 2**: Delete all Python 2.3 or Python 2.4 eggs from the distribution
directory, except the most recently modified one for each Python version::

    setup.py rotate --match=-py2.3*.egg,-py2.4*.egg --keep=1

.. _saveopts:

``saveopts`` - Save used options to a configuration file

Finding and editing ``distutils`` configuration files can be a pain, especially
since you also have to translate the configuration options from command-line
form to the proper configuration file format. You can avoid these hassles by
using the ``saveopts`` command. Just add it to the command line to save the
options you used. For example, this command builds the project using
the ``mingw32`` C compiler, then saves the --compiler setting as the default
for future builds (even those run implicitly by the ``install`` command)::

    setup.py build --compiler=mingw32 saveopts

The ``saveopts`` command saves all options for every command specified on the
command line to the project's local ``setup.cfg`` file, unless you use one of
the `configuration file options`_ to change where the options are saved. For
eample, this command does the same as above, but saves the compiler setting
to the site-wide (global) distutils configuration::

    setup.py build --compiler=mingw32 saveopts -g

Note that it doesn't matter where you place the ``saveopts`` command on the
command line; it will still save all the options specified for all commands.
For example, this is another valid way to spell the last example::

    setup.py saveopts -g build --compiler=mingw32

Note, however, that all of the commands specified are always run, regardless of
where ``saveopts`` is placed on the command line.
Configuration File Options

Normally, settings such as options and aliases are saved to the project's local ``setup.cfg`` file. But you can override this and save them to the global or per-user configuration files, or to a manually-specified filename.

``--global-config, -g``
Save settings to the global ``distutils.cfg`` file inside the ``distutils`` package directory. You must have write access to that directory to use this option. You also can't combine this option with ``-u`` or ``-f``.

``--user-config, -u``
Save settings to the current user's ``~/.pydistutils.cfg`` (POSIX) or ``$HOME/pydistutils.cfg`` (Windows) file. You can't combine this option with ``-g`` or ``-f``.

``--filename=FILENAME, -f FILENAME``
Save settings to the specified configuration file to use. You can't combine this option with ``-g`` or ``-u``. Note that if you specify a non-standard filename, the ``distutils`` and ``setuptools`` will not use the file's contents. This option is mainly included for use in testing.

These options are used by other ``setuptools`` commands that modify configuration files, such as the `alias` and `setopt` commands.

.. _setopt:
``setopt`` - Set a distutils or setuptools option in a config file

This command is mainly for use by scripts, but it can also be used as a quick and dirty way to change a distutils configuration option without having to remember what file the options are in and then open an editor.

**Example 1**. Set the default C compiler to ``mingw32`` (using long option names)::

```python
setup.py setopt --command=build --option=compiler --set-value=mingw32
```

**Example 2**. Remove any setting for the distutils default package installation directory (short option names)::

```python
setup.py setopt -c install -o install_lib -r
```
Options for the `setopt` command:

```
--command=COMMAND, -c COMMAND
```
Command to set the option for. This option is required.

```
--option=OPTION, -o OPTION
```
The name of the option to set. This option is required.

```
--set-value=VALUE, -s VALUE
```
The value to set the option to. Not needed if `--remove` is set.

```
--remove, -r
```
Remove (unset) the option, instead of setting it.

In addition to the above options, you may use any of the `configuration file options`_ (listed under the `saveopts`_ command, above) to determine which `distutils` configuration file the option will be added to (or removed from).

.. _test:
```
test` - Build package and run a unittest suite
============================================================================
```

When doing test-driven development, or running automated builds that need testing before they are deployed for downloading or use, it's often useful to be able to run a project's unit tests without actually deploying the project anywhere, even using the `develop` command. The `test` command runs a project's unit tests without actually deploying it, by temporarily putting the project's source on `sys.path`, after first running `build_ext -i` and `egg_info` to ensure that any C extensions and project metadata are up-to-date.

To use this command, your project's tests must be wrapped in a `unittest` test suite by either a function, a `TestCase` class or method, or a module or package containing `TestCase` classes. If the named suite is a module, and the module has an `additional_tests()` function, it is called and the result (which must be a `unittest.TestSuite`) is added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite. (Note: if your project specifies a `test_loader`, the rules for processing the chosen `test_suite` may differ; see the `test_loader` documentation for more details.)

Note that many test systems including `doctest` support wrapping their non-`unittest` tests in `TestSuite` objects. So, if you are using a test
package that does not support this, we suggest you encourage its developers to implement test suite support, as this is a convenient and standard way to aggregate a collection of tests to be run under a common test harness.

By default, tests will be run in the "verbose" mode of the `unittest` package's text test runner, but you can get the "quiet" mode (just dots) if you supply the `-q` or `--quiet` option, either as a global option to the setup script (e.g. `setup.py -q test`) or as an option for the `test` command itself (e.g. `setup.py test -q`). There is one other option available:

```
--test-suite=NAME, -s NAME
```

Specify the test suite (or module, class, or method) to be run (e.g. `some_module.test_suite`). The default for this option can be set by giving a `test_suite` argument to the `setup()` function, e.g.:

```python
setup(
    # ...
    test_suite = "my_package.tests.test_all"
)
```

If you did not set a `test_suite` in your `setup()` call, and do not provide a `--test-suite` option, an error will occur.

.. _upload:

```
upload` - Upload source and/or egg distributions to PyPI

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

The `upload` command is implemented and documented `<https://docs.python.org/3.1/distutils/uploading.html>`_ in distutils.

Setup tools augments the `upload` command with support for `keyring` `<https://pypi.python.org/pypi/keyring>`_, allowing the password to be stored in a secure location and not in plaintext in the `.pypirc` file. To use keyring, first install keyring and set the password for the relevant repository, e.g.:

```bash
python -m keyring set <repository> <username>
Password for '<username>' in '<repository>': ********
```

Then, in `.pypirc`, set the repository configuration as normal, but omit the password. Thereafter, uploads will use the password from the keyring.
New in 20.1: Added keyring support.

.. _upload_docs:

``upload_docs`` - Upload package documentation to PyPI

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

PyPI now supports uploading project documentation to the dedicated URL https://pythonhosted.org/<project>/.

The `upload_docs` command will create the necessary zip file out of a documentation directory and will post to the repository.

Note that to upload the documentation of a project, the corresponding version must already be registered with PyPI using the distutils `register` command -- just like the `upload` command.

Assuming there is an `Example` project with documentation in the subdirectory `docs`, e.g.::

Example/
|-- example.py
|-- setup.cfg
|-- setup.py
|-- docs
 | |-- build
 | | `-- html
 | | | `-- index.html
 | | `-- tips_tricks.html
 | `-- conf.py
 | `-- index.txt
 `-- tips_tricks.txt

You can simply pass the documentation directory path to the `upload_docs` command::

    python setup.py upload_docs --upload-dir=docs/build/html

If no `--upload-dir` is given, `upload_docs` will attempt to run the `build_sphinx` command to generate uploadable documentation.

For the command to become available, `Sphinx <http://sphinx.pocoo.org/>`_ must be installed in the same environment as distribute.

As with other `setuptools`-based commands, you can define useful defaults in the `setup.cfg` of your Python project, e.g.:

.. code-block:: ini
The ``upload_docs`` command has the following options:

``--upload-dir``
The directory to be uploaded to the repository.

``--show-response``
Display the full response text from server; this is useful for debugging PyPI problems.

``--repository=URL, -r URL``
The URL of the repository to upload to. Defaults to https://pypi.python.org/pypi (i.e., the main PyPI installation).

-------------------------
Extending and Reusing Setuptools
-------------------------

Creating ``distutils`` Extensions
================================

It can be hard to add new commands or setup arguments to the distutils. But the ``setuptools`` package makes it a bit easier, by allowing you to distribute a distutils extension as a separate project, and then have projects that need the extension just refer to it in their ``setup_requires`` argument.

With ``setuptools``, your distutils extension projects can hook in new commands and ``setup()`` arguments just by defining "entry points". These are mappings from command or argument names to a specification of where to import a handler from. (See the section on 'Dynamic Discovery of Services and Plugins' above for some more background on entry points.)

Adding Commands
--------------

You can add new ``setup`` commands by defining entry points in the ``distutils.commands`` group. For example, if you wanted to add a ``foo`` command, you might add something like this to your distutils extension project's setup script::

```python
setup(
    # ...
    entry_points = {
        "distutils.commands": [
```
"foo = mypackage.some_module:foo",
],
},
)

(Assuming, of course, that the `foo` class in `mypackage.some_module` is a `setuptools.Command` subclass.)

Once a project containing such entry points has been activated on `sys.path`, (e.g. by running "install" or "develop" with a site-packages installation directory) the command(s) will be available to any `setuptools`-based setup scripts. It is not necessary to use the `--command-packages` option or to monkeypatch the `distutils.command` package to install your commands; `setuptools` automatically adds a wrapper to the distutils to search for entry points in the active distributions on `sys.path`. In fact, this is how setuptools’ own commands are installed: the setuptools project’s setup script defines entry points for them!

Adding `setup()` Arguments
----------------------------

Sometimes, your commands may need additional arguments to the `setup()` call. You can enable this by defining entry points in the `distutils.setup_keywords` group. For example, if you wanted a `setup()` argument called `bar_baz`, you might add something like this to your distutils extension project’s setup script::

```python
setup(
    # ...
    entry_points = {
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
        "distutils.setup_keywords": [
            "bar_baz = mypackage.some_module:validate_bar_baz",
        ],
    },
)
```

The idea here is that the entry point defines a function that will be called to validate the `setup()` argument, if it’s supplied. The `Distribution` object will have the initial value of the attribute set to `None`, and the validation function will only be called if the `setup()` call sets it to a non-None value. Here’s an example validation function::

```python
def assert_bool(dist, attr, value):
    """Verify that value is True, False, 0, or 1""
```
if bool(value) != value:
    raise DistutilsSetupError(
        "%r must be a boolean value (got %r)" % (attr,value)
    )

Your function should accept three arguments: the ``Distribution`` object, the attribute name, and the attribute value. It should raise a
``DistutilsSetupError`` (from the ``distutils.errors`` module) if the argument
is invalid. Remember, your function will only be called with non-None values,
and the default value of arguments defined this way is always None. So, your
commands should always be prepared for the possibility that the attribute will
be ``None`` when they access it later.

If more than one active distribution defines an entry point for the same
``setup()`` argument, *all* of them will be called. This allows multiple
distutils extensions to define a common argument, as long as they agree on
what values of that argument are valid.

Also note that as with commands, it is not necessary to subclass or monkeypatch
the distutils ``Distribution`` class in order to add your arguments; it is
sufficient to define the entry points in your extension, as long as any setup
script using your extension lists your project in its ``setup_requires``
argument.

Adding new EGG-INFO Files
-------------------------

Some extensible applications or frameworks may want to allow third parties to
develop plugins with application or framework-specific metadata included in
the plugins' EGG-INFO directory, for easy access via the `pkg_resources`
metadata API. The easiest way to allow this is to create a distutils extension
to be used from the plugin projects' setup scripts (via ``setup_requires``)
that defines a new setup keyword, and then uses that data to write an EGG-INFO
file when the ``egg_info`` command is run.

The ``egg_info`` command looks for extension points in an ``egg_info.writers``
group, and calls them to write the files. Here's a simple example of a
distutils extension defining a setup argument ``foo_bar``, which is a list of
lines that will be written to ``foo_bar.txt`` in the EGG-INFO directory of any
project that uses the argument::

```python
setup(
    # ...
    entry_points = {
        "distutils.setup_keywords": [
            
            "foo_bar = setuptools.dist:assert_string_list",
        ],
```

Open Source Used In HyperFlex HX Data Platform 4.5(2d) 9661
"egg_info.writers": [  "foo_bar.txt = setuptools.command.egg_info:write_arg",  ],
],
)

This simple example makes use of two utility functions defined by setuptools for its own use: a routine to validate that a setup keyword is a sequence of strings, and another one that looks up a setup argument and writes it to a file. Here's what the writer utility looks like:

```python
def write_arg(cmd, basename, filename):
    argname = os.path.splitext(basename)[0]
    value = getattr(cmd.distribution, argname, None)
    if value is not None:
        value = '\n'.join(value)+'\n'
        cmd.write_or_delete_file(argname, filename, value)
```

As you can see, ``egg_info.writers`` entry points must be a function taking three arguments: a ``egg_info`` command instance, the basename of the file to write (e.g. `foo_bar.txt`), and the actual full filename that should be written to.

In general, writer functions should honor the command object's `dry_run` setting when writing files, and use the `distutils.log` object to do any console output. The easiest way to conform to this requirement is to use the `cmd` object's `write_file()`, `delete_file()`, and `write_or_delete_file()` methods exclusively for your file operations. See those methods' docstrings for more details.

Adding Support for Revision Control Systems
---------------------------------------------

If the files you want to include in the source distribution are tracked using Git, Mercurial or SVN, you can use the following packages to achieve that:

- Git and Mercurial: `setuptools_scm <https://pypi.python.org/pypi/setuptools_scm>`_
- SVN: `setuptools_svn <https://pypi.python.org/pypi/setuptools_svn>`_

If you would like to create a plugin for `setuptools` to find files tracked by another revision control system, you can do so by adding an entry point to the `setuptools.file_finders` group. The entry point should be a function accepting a single directory name, and should yield all the filenames within that directory (and any subdirectories thereof) that are under revision control.

For example, if you were going to create a plugin for a revision control system
called "foobar", you would write a function something like this:

```python
.. code-block:: python

def find_files_for_foobar(dirname):
    # loop to yield paths that start with `dirname`

And you would register it in a setup script using something like this:

```python
entry_points = {
    "setuptools.file_finders": [
        "foobar = my_foobar_module:find_files_for_foobar"
    ]
}
```

Then, anyone who wants to use your plugin can simply install it, and their local setuptools installation will be able to find the necessary files.

It is not necessary to distribute source control plugins with projects that simply use the other source control system, or to specify the plugins in `"setup_requires"`. When you create a source distribution with the `"sdist"` command, setuptools automatically records what files were found in the `"SOURCES.txt"` file. That way, recipients of source distributions don't need to have revision control at all. However, if someone is working on a package by checking out with that system, they will need the same plugin(s) that the original author is using.

A few important points for writing revision control file finders:

- Your finder function MUST return relative paths, created by appending to the passed-in directory name. Absolute paths are NOT allowed, nor are relative paths that reference a parent directory of the passed-in directory.

- Your finder function MUST accept an empty string as the directory name, meaning the current directory. You MUST NOT convert this to a dot; just yield relative paths. So, yielding a subdirectory named `"some/dir"` under the current directory should NOT be rendered as `"./some/dir"` or `"/somewhere/some/dir"`, but *always* as simply `"some/dir"`.

- Your finder function SHOULD NOT raise any errors, and SHOULD deal gracefully with the absence of needed programs (i.e., ones belonging to the revision control system itself. It *may*, however, use `"distutils.log.warn()"` to inform the user of the missing program(s).

Subclassing `Command`
Sorry, this section isn't written yet, and neither is a lot of what's below this point.

XXX

Reusing `setuptools` Code
==========================

``ez_setup``
----------

XXX

``setuptools.archive_util``
-----------------------------

XXX

``setuptools.sandbox``
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XXX

``setuptools.package_index``
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XXX

Mailing List and Bug Tracker
=================================

Please use the `distutils-sig mailing list`_ for questions and discussion about setuptools, and the `setuptools bug tracker`_ ONLY for issues you have confirmed via the list are actual bugs, and which you have reduced to a minimal set of steps to reproduce.

.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/
.. _setuptools bug tracker: https://github.com/pypa/setuptools/

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* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/docs/setuptools.txt
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  20.7.0/pkg_resources/_vendor/pyparsing.py
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Metadata-Version: 1.1
Name: setuptools
Version: 20.7.0
Summary: Easily download, build, install, upgrade, and uninstall Python packages
Home-page: https://github.com/pypa/setuptools
Author: Python Packaging Authority
Author-email: distutils-sig@python.org
License: UNKNOWN
Description: ===============================
           Installing and Using Setuptools
           ===============================

.. contents:: **Table of Contents**

`Change History <https://pythonhosted.org/setuptools/history.html>`_.

-------------------------
Installation Instructions
-------------------------

The recommended way to bootstrap setuptools on any system is to download
`ez_setup.py` and run it using the target Python environment. Different
operating systems have different recommended techniques to accomplish this
basic routine, so below are some examples to get you started.

Setuptools requires Python 2.6 or later. To install setuptools
on Python 2.4 or Python 2.5, use the `bootstrap script for Setuptools 1.x
<https://raw.githubusercontent.com/pypa/setuptools/1.x/bootstrap-24/ez_setup.py>`_.

The link provided to ez_setup.py is a bookmark to bootstrap script for the
latest known stable release.
Windows (Powershell 3 or later)

For best results, uninstall previous versions FIRST (see `Uninstalling`).

Using Windows 8 (which includes PowerShell 3) or earlier versions of Windows with PowerShell 3 installed, it's possible to install with one simple Powershell command. Start up Powershell and paste this command::

```bash
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | python -
```

You must start the Powershell with Administrative privileges or you may choose to install a user-local installation::

```bash
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | python - --user
```

If you have Python 3.3 or later, you can use the "py" command to install to different Python versions. For example, to install to Python 3.3 if you have Python 2.7 installed::

```bash
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | py -3 -
```

The recommended way to install setuptools on Windows is to download `ez_setup.py` and run it. The script will download the appropriate distribution file and install it for you.

Once installation is complete, you will find an "easy_install" program in your Python `Scripts` subdirectory. For simple invocation and best results, add this directory to your `PATH` environment variable, if it is not already present. If you did a user-local install, the `Scripts` subdirectory is `\$env:APPDATA\Python\Scripts`.

Windows (simplified)

For Windows without PowerShell 3 or for installation without a command-line, download `ez_setup.py` using your preferred web browser or other technique and "run" that file.

Unix (wget)

Most Linux distributions come with wget.
Download `ez_setup.py` and run it using the target Python version. The script will download the appropriate version and install it for you:

```bash
> wget https://bootstrap.pypa.io/ez_setup.py -O - | python
```

Note that you may need to invoke the command with superuser privileges to install to the system Python:

```bash
> wget https://bootstrap.pypa.io/ez_setup.py -O - | sudo python
```

Alternatively, Setuptools may be installed to a user-local path:

```bash
> wget https://bootstrap.pypa.io/ez_setup.py -O - | python - --user
```

Note that on some older systems (noted on Debian 6 and CentOS 5 installations), `wget` may refuse to download `ez_setup.py`, complaining that the certificate common name `*.c.ssl.fastly.net` does not match the host name `bootstrap.pypa.io`. In addition, the `ez_setup.py` script may then encounter similar problems using `wget` internally to download `setuptools-x.y.zip`, complaining that the certificate common name of `www.python.org` does not match the host name `pypi.python.org`. Those are known issues, related to a bug in the older versions of `wget` (see `Issue 59 <https://bitbucket.org/pypa/pypi/issue/59#comment-5881915>`). If you happen to encounter them, install Setuptools as follows:

```bash
> wget --no-check-certificate https://bootstrap.pypa.io/ez_setup.py
> python ez_setup.py --insecure
```

Unix including Mac OS X (curl)
-------------------------------

If your system has curl installed, follow the `wget` instructions but replace `wget` with `curl` and `-O` with `--o`. For example:

```bash
> curl https://bootstrap.pypa.io/ez_setup.py -o - | python
```

Advanced Installation
---------------------

For more advanced installation options, such as installing to custom locations or prefixes, download and extract the source tarball from `Setuptools on PyPI <https://pypi.python.org/pypi/setuptools>` and run setup.py with any supported distutils and Setuptools options. For example:

```bash
setuptools-x.x$ python setup.py install --prefix=/opt/setuptools
```
Use `--help` to get a full options list, but we recommend consulting the `EasyInstall manual` for detailed instructions, especially `the section on custom installation locations`.

.. _EasyInstall manual: https://pythonhosted.org/setuptools/EasyInstall
.. _the section on custom installation locations: https://pythonhosted.org/setuptools/EasyInstall#custom-installation-locations

Downloads
==========

All setuptools downloads can be found at `the project's home page in the Python Package Index`_. Scroll to the very bottom of the page to find the links.

.. _the project's home page in the Python Package Index: https://pypi.python.org/pypi/setuptools

In addition to the PyPI downloads, the development version of `setuptools` is available from the `Bitbucket repo`_, and in-development versions of the `0.6 branch`_ are available as well.

.. _Bitbucket repo: https://bitbucket.org/pypa/setuptools/get/default.tar.gz#egg=setuptools-dev
.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

Uninstalling
============

On Windows, if Setuptools was installed using an ``.exe` or ``.msi` installer, simply use the uninstall feature of `Add/Remove Programs` in the Control Panel.

Otherwise, to uninstall Setuptools or Distribute, regardless of the Python version, delete all `setuptools*` and `distribute*` files and directories from your system's `site-packages` directory (and any other `sys.path` directories) FIRST.

If you are upgrading or otherwise plan to re-install Setuptools or Distribute, nothing further needs to be done. If you want to completely remove Setuptools, you may also want to remove the `easy_install` and `easy_install-x.x` scripts and associated executables installed to the Python scripts directory.

--------------------------------
Using Setuptools and EasyInstall
--------------------------------

Here are some of the available manuals, tutorials, and other resources for learning about Setuptools, Python Eggs, and EasyInstall:
* `The EasyInstall user's guide and reference manual`_
* `The setuptools Developer's Guide`_
* `The pkg_resources API reference`_
* `The Internal Structure of Python Eggs`_

Questions, comments, and bug reports should be directed to the `distutils-sig mailing list`_. If you have written (or know of) any tutorials, documentation, plug-ins, or other resources for setuptools users, please let us know about them there, so this reference list can be updated. If you have working, *tested* patches to correct problems or add features, you may submit them to the `setuptools bug tracker`_.

.. _setuptools bug tracker: https://github.com/pypa/setuptools/issues
.. _The Internal Structure of Python Eggs: https://pythonhosted.org/setuptools/formats.html
.. _The pkg_resources API reference: https://pythonhosted.org/setuptools/pkg_resources.html
.. _The EasyInstall user's guide and reference manual: https://pythonhosted.org/setuptools/easy_install.html
.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/

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Credits
-------

* The original design for the ``.egg` format and the `pkg_resources` API was co-created by Phillip Eby and Bob Ippolito. Bob also implemented the first version of `pkg_resources`, and supplied the OS X operating system version compatibility algorithm.

* Ian Bicking implemented many early "creature comfort" features of easy_install, including support for downloading via Sourceforge and Subversion repositories. Ian's comments on the Web-SIG about WSGI application deployment also inspired the concept of "entry points" in eggs, and he has given talks at PyCon and elsewhere to inform and educate the community about eggs and setuptools.

* Jim Fulton contributed time and effort to build automated tests of various aspects of `easy_install`, and supplied the doctests for the command-line `exe` wrappers on Windows.

* Phillip J. Eby is the seminal author of setuptools, and first proposed the idea of an importable binary distribution format for Python application plug-ins.

* Significant parts of the implementation of setuptools were funded by the Open Source Applications Foundation, to provide a plug-in infrastructure for the Chandler PIM application. In addition, many OSAF staffers (such as Mike
"Code Bear" Taylor) contributed their time and stress as guinea pigs for the use of eggs and setuptools, even before eggs were "cool". (Thanks, guys!)

* Tarek Ziad is the principal author of the Distribute fork, which re-invigorated the community on the project, encouraged renewed innovation, and addressed many defects.

* Since the merge with Distribute, Jason R. Coombs is the maintainer of setuptools. The project is maintained in coordination with the Python Packaging Authority (PyPA) and the larger Python community.

.. _files:

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Code of Conduct
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Everyone interacting in the setuptools project's codebases, issue trackers, chat rooms, and mailing lists is expected to follow the "PyPA Code of Conduct"_.


Keywords: CPAN PyPI distutils eggs package management
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/ Stable
Classifier: Intended Audience :: Developers
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Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
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* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/setuptools.egg-info/PKG-INFO
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* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/packaging/markers.py
* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/packaging/_compat.py
* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/packaging/__about__.py
* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/packaging/specifiers.py
* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/packaging/__init__.py
* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/packaging/utils.py
* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/packaging/requirements.py
* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/packaging/version.py
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1.984 pytz 2014.10
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*/
/**
 * Set the [@code TCP_MD5SIG] option on the socket. See [@code linux/tcp.h] for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */

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* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java
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* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollChannelConfig.java
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jar/io/netty/channel/epoll/EpollServerSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollEventLoopGroup.java
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* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/LinuxSocket.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/netty_epoll_linuxsocket.c
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/netty_epoll_linuxsocket.h
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* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java
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/**
 * Set the `{@code TCP_MD5SIG}` option on the socket. See `{@code linux/tcp.h}` for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */
/**
 * Set the `{@code TCP_QUICKACK}` option on the socket. See `<a href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>`
 * for more details.
 */

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* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollSocketChannelConfig.java

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* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-
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*/

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#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

typedef struct pollfd {
  int fd;
  short events;
  short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNONE 0x0040
#define POLLNORMPOLLRDNONE
#define POLLWRNONE POLLOUT
#define POLLRDNONE0x0080
#define POLLWRBAND0x0100
#endif

#define INFTIM(-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
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#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
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*
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w)) & 0377)
#define WIFSTOPPED(w) (_W_INT(w) & 0100)
#define WIFSIGNALED(w) (WIFEXITED(w) && WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? (_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

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/* Prototype */
pid_t waitpid(int, int *, int);

#ifndef HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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1.1012 xml-commons-resolver 1.2

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* /opt/cola/permits/1258121072_1643033061.12/0/jetty-util5-6-1-22-sources-jar/org/mortbay/servlet/DoSFilter.java

1.1019 httpcore-nio 4.4.5
1.1019.1 Available under license:

```html
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">
<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
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<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
```
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</head>

<body>

<!-- Navigation -->
<header>
<nav class="navbar navbar-default navbar-fixed-top">
<div class="container">

</div></nav></header>
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Version 2.0, January 2004

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1.1020 kmod 22 1ubuntu4

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* /opt/cola/permits/1151111226_1617788578.58/0/servo-core-0-5-2-sources-3-jar/com/netflix/servo/monitor/AtomicUtils.java
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* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.1032 javax-inject 2.4.0-b34

1.1033 json-java 20131018

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1.1034 linux-atm 2.5.1-1.5

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This is the Debian prepackaged version of the GNU gettext utilities.
GNU gettext was written by Ulrich Drepper <drepper@gnu.org>.
emacs po-mode was written by Franois Pinard <pinard@iro.umontreal.ca>.

This package was first created by Erick Branderhorst <branderh@debian.org>,
and is currently maintained by Santiago Vila <sanvila@debian.org>.

This release has been built using the sources from:

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The changes were fairly minimal, and consisted solely of adding
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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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Source code was downloaded from:

http://ftp.gnu.org/gnu/sharutils/sharutils-4.15.2.tar.xz

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1.1051 commons-lang3 2.6

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IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
use gio_sys;
use glib;
use glib::object::Cast;
use glib::object::IsA;
use glib::signal::connect_raw;
use glib::signal::SignalHandlerId;
use glib::translate::*;
use glib_sys;
use gobject_sys;
use std::boxed::Box as Box_;
use std::fmt;
use std::mem::transmute;
use std::pin::Pin;
use std::ptr;
use Cancellable;

glib_wrapper! {
    pub struct Permission(Object<gio_sys::GPermission, gio_sys::GPermissionClass, PermissionClass>);

    match fn {
        get_type => || gio_sys::g_permission_get_type(),
    }
}

pub const NONE_PERMISSION: Option<&Permission> = None;

pub trait PermissionExt: 'static {
    fn acquire<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error>;

    fn acquire_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static> (&self, cancellable: Option<&P>, callback: Q);

    fn acquire_async_future(&self,);
}
fn get_allowed(&self) -> bool;

fn get_can_acquire(&self) -> bool;

fn get_can_release(&self) -> bool;

fn impl_update(&self, allowed: bool, can_acquire: bool, can_release: bool);

fn release<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error>;

fn release_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(&self, cancellable: Option<&P>, callback: Q);

fn release_async_future(&self) -> Pin<Box<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>>;

fn connect_property_allowed_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;

fn connect_property_can_acquire_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;

fn connect_property_can_release_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;

impl<O: IsA<Permission>> PermissionExt for O {
    fn acquire<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error> {
        unsafe {
            let mut error = ptr::null_mut();
            let _ = gio_sys::g_permission_acquire(
                self.as_ref().to_glib_none().0,
                cancellable.map(|p| p.as_ref()).to_glib_none().0,
                &mut error,
            );
            if error.is_null() {
                Ok(())
            } else {
                Err(from_glib_full(error))
            }
        }
    }

    fn acquire_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(&self, cancellable: Option<&P>, callback: Q);
}
let user_data: Box_<Q> = Box_::new(callback);
unsafe extern "C" fn acquire_async_trampoline<
    Q: FnOnce(Result<(), glib::Error>) + Send + 'static,

    (_source_object: *mut gobject_sys::GObject,
    res: *mut gio_sys::GAsyncResult,
    user_data: glib_sys::gpointer,

) {
    let mut error = ptr::null_mut();
    let _ = gio_sys::g_permission_acquire_finish(_source_object as *mut _, res, &mut error);
    let result = if error.is_null() {
        Ok(())
    } else {
        Err(from_glib_full(error))
    };
    let callback: Box_<Q> = Box_::from_raw(user_data as *mut _);
    callback(result);
}

let callback = acquire_async_trampoline::<Q>;
unsafe {
    gio_sys::g_permission_acquire_async(
        self.as_ref().to_glib_none().0,
        cancellable.map(|p| p.as_ref()).to_glib_none().0,
        Some(callback),
        Box_::_into_raw(user_data) as *mut _,
    );
}

fn acquire_async_future(
    &self,
) -> Pin<Box<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>> {
    Box_::pin(crate::GioFuture::new(self, move |obj, send| {
        let cancellable = Cancellable::new();
        obj.acquire_async(Some(&cancellable), move |res| {
            send.resolve(res);
        });
        cancellable
    }));
}

fn get_allowed(&self) -> bool {
    unsafe {
        from_glib(gio_sys::g_permission_get_allowed(
fn get_can_acquire(&self) -> bool {
    unsafe {
        from_glib(gio_sys::g_permission_get_can_acquire(
            self.as_ref().to_glib_none().0,
        )
    }
}

fn get_can_release(&self) -> bool {
    unsafe {
        from_glib(gio_sys::g_permission_get_can_release(
            self.as_ref().to_glib_none().0,
        )
    }
}

fn impl_update(&self, allowed: bool, can_acquire: bool, can_release: bool) {
    unsafe {
        gio_sys::g_permission_impl_update(
            self.as_ref().to_glib_none().0,
            allowed.to_glib(),
            can_acquire.to_glib(),
            can_release.to_glib(),
        );
    }
}

fn release<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error> {
    unsafe {
        let mut error = ptr::null_mut();
        let _ = gio_sys::g_permission_release(
            self.as_ref().to_glib_none().0,
            cancellable.map(|p| p.as_ref()).to_glib_none().0,
            &mut error,
        );
        if error.is_null() {
            Ok(())
        } else {
            Err(from_glib_full(error))
        }
    }
}
fn release_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(
    &self,
    cancellable: Option<&P>,
    callback: Q,
) {
    let user_data: Box<Q> = Box::new(callback);
    unsafe extern "C" fn release_async_trampoline<Q: FnOnce(Result<(), glib::Error>) + Send + 'static,> {
        _source_object: *mut gobject_sys::GObject,
        res: *mut gio_sys::GAsyncResult,
        user_data: glib_sys::gpointer,
    } {
        let mut error = ptr::null_mut();
        let _ = gio_sys::g_permission_release_finish(_source_object as *mut _, res, &mut error);
        let result = if error.is_null() {
            Ok(())
        } else {
            Err(from_glib_full(error))
        };
        let callback: Box<Q> = Box::from_raw(user_data as *mut _);
        callback(result);
    }
    let callback = release_async_trampoline::<Q>;
    unsafe {
        gio_sys::g_permission_release_async(
            _self.as_ref().to_glib_none().0,
            cancellable.map(|p| p.as_ref()).to_glib_none().0,
            Some(callback),
            Box::<i32>::into_raw(user_data as *mut _),
        );
    }
}

fn release_async_future(
    &self,
) -> Pin<Box<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>> { 
    Box::<pin(crate::GioFuture::new(self, move |obj, send| {
        let cancellable = Cancellable::new();
        obj.release_async(Some(&cancellable), move |res| {
            send.resolve(res);
        });
    }))

    cancellable
})

fn connect_property_allowed_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
unsafe extern "C" fn notify_allowed_trampoline<P, F: Fn(&P) + 'static>(
    this: *mut gio_sys::GPermission,
    _param_spec: glib_sys::gpointer,
    f: glib_sys::gpointer,
) where
    P: IsA<Permission>,
{
    let f: &F = &*(f as *const F);
    f(&Permission::from_glib_borrow(this).unsafe_cast())
}
unsafe {
    let f: Box_<F> = Box_::new(f);
    connect_raw(
        self.as_ptr() as *mut _,
        b"notify::allowed\0".as_ptr() as *const _,
        Some(transmute(notify_allowed_trampoline::<Self, F> as usize)),
        Box_::into_raw(f),
    )
}
}

fn connect_property_can_acquire_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
unsafe extern "C" fn notify_can_acquire_trampoline<P, F: Fn(&P) + 'static>(
    this: *mut gio_sys::GPermission,
    _param_spec: glib_sys::gpointer,
    f: glib_sys::gpointer,
) where
    P: IsA<Permission>,
{
    let f: &F = &*(f as *const F);
    f(&Permission::from_glib_borrow(this).unsafe_cast())
}
unsafe {
    let f: Box_<F> = Box_::new(f);
    connect_raw(
        self.as_ptr() as *mut _,
        b"notify::can-acquire\0".as_ptr() as *const _,
        Some(transmute(notify_can_acquire_trampoline::<Self, F> as usize)),
        Box_::into_raw(f),
    )
}
}

fn connect_property_can_release_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
unsafe extern "C" fn notify_can_release_trampoline<P, F: Fn(&P) + 'static>(
    this: *mut gio_sys::GPermission,
    _param_spec: glib_sys::gpointer,
    f: glib_sys::gpointer,
) where
    P: IsA<Permission>,
{
    let f: &F = &*(f as *const F);
    f(&Permission::from_glib_borrow(this).unsafe_cast())
}
unsafe {
    let f: Box_<F> = Box_::new(f);
    connect_raw(
        self.as_ptr() as *mut _,
        b"notify::can-release\0".as_ptr() as *const _,
        Some(transmute(notify_can_release_trampoline::<Self, F> as usize)),
        Box_::into_raw(f),
    )
}
}
impl fmt::Display for Permission {
    fn fmt(&self, f: &mut fmt::Formatter) -> fmt::Result {
        write!(f, "Permission")
    }
}

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

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

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

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

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

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

The Distutils2 project was started by Tarek Ziad and is currently maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order, and welcome into the Fellowship of the Packaging!

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- Anthony Baxter
- Erik Bray
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1.1065 zeromq 4.1.4 7ubuntu0.1

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wepoll - epoll for Windows
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Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
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Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
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* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/util/proxy/RuntimeSupport.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/rmi/ObjectNotFoundException.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/CastExpr.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/convert/TransformBefore.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/convert/TransformFieldAccess.java
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* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/rmi/AppletServer.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/reflect/Metalevel.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/AnnotationImpl.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/TypeChecker.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/CtMember.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1.jar/javassist/compiler/JvstCodeGen.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1.jar/javassist/ClassClassPath.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1.jar/javassist/bytecode/Opcode.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1.jar/javassist/tools/reflect/Sample.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1.jar/javassist/compiler/MemberCodeGen.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1.jar/javassist/CtPrimitiveType.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1.jar/javassist/URLClassPath.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1.jar/javassist/bytecode/SignatureAttribute.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1.jar/javassist/bytecode/CodeIterator.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1.jar/javassist/bytecode/CodeConverter.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1.jar/javassist/compiler/ast/AssignExpr.java
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* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/expr/Handler.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/util/proxy/ProxyObjectOutputStream.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/NoFieldException.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/SyntaxError.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/ClassPath.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/convert/Transformer.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/MethodInfo.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/Descriptor.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/JvstTypeChecker.java
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* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/CodeAttribute.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/expr/Cast.java
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1.1104 certifi 2020.06.20

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```
ca-bundle.crt -- Bundle of CA Root Certificates

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

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1.1105 asm 5.0.3

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/**
 * Creates a new AnalyzerAdapter. <i>Subclasses must not use this constructor</i>. Instead, they must use the
 * AnalyzerAdapter(int, String, int, String, String, MethodVisitor) version.
 *
 * @param owner the owner's class name.
 * @param access the method's access flags (see Opcodes).
 * @param name the method's name.
 * @param desc the method's descriptor (see 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.
 */

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*/
/**
 * Creates a new {@link GeneratorAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [{@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}]
 * version.
 *
 * @param mv
 * @param access
 * @param name
 * @param desc
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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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
 * @param access
 * @param name
 * @param desc
 * @param signature
 * @param exceptions
 * @param throws
 *
 * Found in path(s):
 */

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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 fist 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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*/
/**
 * 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.
 */

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 */
/**
 * Constructs a new [@link ClassNode]. <i>Subclasses must not use this
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 *
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/ClassVisitor.java
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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/MethodConstantsCollector.java
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1.1108 fdisk 2.27.0

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout---------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout---------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device Boot Start End Sectors Size Id Type
<removed>1 2048 4095 2048 1M 83 Linux

Create 2st primary partition
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8ddf51a8a045db233418dd73fbd bsd.img

---layout---------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Sectors</th>
<th>Size</th>
<th>Id</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;removed&gt;1</td>
<td>2048</td>
<td>4095</td>
<td>2048</td>
<td>1M</td>
<td>83</td>
<td>Linux</td>
<td></td>
</tr>
<tr>
<td>&lt;removed&gt;2</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>8M</td>
<td>a5</td>
<td>FreeBSD</td>
<td></td>
</tr>
</tbody>
</table>

Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout--------

Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd

<table>
<thead>
<tr>
<th>Slice</th>
<th>Start</th>
<th>End</th>
<th>Sectors</th>
<th>Size</th>
<th>Type</th>
<th>Fsize</th>
<th>Bsize</th>
<th>Cpg</th>
</tr>
</thead>
<tbody>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>8M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>d</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>7.9M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):
-------------------

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------

Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.
Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd

<table>
<thead>
<tr>
<th>Slice Start</th>
<th>End Sectors</th>
<th>Size Type</th>
<th>Fsize</th>
<th>Bsize</th>
<th>Cpg</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>4096 6144</td>
<td>1M 4.2BSD</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>c</td>
<td>4096 20479</td>
<td>8M unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>d</td>
<td>0 16064</td>
<td>7.9M unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

-------------------
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help):

0  unused           5  4.1BSD           9  4.4LFS           d  boot
1  swap             6  Eighth Edition  a  unknown          e  ADOS
2  Version 6        7  4.2BSD           b  HPFS             f  HFS
3  Version 7        8  MS-DOS           c  ISO-9660        10  AdvFS
4  System V

Command (m for help):

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*/
1.1111 spbash 4.2.53

1.1111.1 Available under license:

Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

John DuBois <spcecdt@armory.com>

Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
I picked up a tar file of ksh scripts you wrote from an anon FTP site a while back. I’d like your permission to include modified versions of some of them in the next major bash distribution (with proper credit given, of course). Is it OK if I do that?

Chet Ramey

```
"The lyf so short, the craft so long to lerne." - Chaucer
```

Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU.Edu

-- End of excerpt from Chet Ramey

From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-1ns)
  id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
  id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
  id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

> Hi. I snagged some of your bash functions from your home directory on the FSF machines (naughty, I know), and I was wondering if you'd let me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in ~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)
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id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)
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id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

I've modified a (modified) version of Bill Rosenblatt's ksh debugger
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That's great!

Go ahead and circulate it; in fact, we should probably grab it and
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(Too late to actually discuss the thing, at least for this edition).

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1.1112 prompt-toolkit 3.0.29

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1.1122 webencodings 0.5
1.1122.1 Available under license :

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from setuptools import setup, find_packages
import io
from os import path
import re
python-webencodings  

This is a Python implementation of the `WHATWG Encoding standard <http://encoding.spec.whatwg.org/>`_.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker: https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
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In order to be compatible with legacy web content when interpreting something like `"Content-Type: text/html; charset=latin1"`, tools need to use a particular set of aliases for encoding labels as well as some overriding rules. For example, `"US-ASCII"` and `"iso-8859-1"` on the web are actually aliases for `"windows-1252"`, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration. The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Python.

```
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* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar-gz/webencodings-0.5/webencodings/tests.py
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar-gz/webencodings-0.5/webencodings/\_\_user\_defined.py
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Metadata-Version: 1.1
Name: webencodings
Version: 0.5
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Simon Sapin
Author-email: simon.sapin@exyr.org
License: BSD
Description: python-webencodings

This is a Python implementation of the `WHATWG Encoding standard` `<http://encoding.spec.whatwg.org>`_.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker:
In order to be compatible with legacy web content when interpreting something like `Content-Type: text/html; charset=latin1`, tools need to use a particular set of aliases for encoding labels as well as some overriding rules.

For example, `US-ASCII` and `iso-8859-1` on the web are actually aliases for `windows-1252`, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration.

The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Pythons.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
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Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 3
Classifier: Topic :: Internet :: WWW/HTTP

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```python
webencodings.mklabels
~~~~~~~~~~~~~~~~~~~~~

Regenerate the webencodings.labels module.

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```
from urllib.request import urlopen

def assert_lower(string):
    assert string == string.lower()
    return string

def generate(url):
    parts = ['"'"
    # XXX Do not edit!
    # This file is automatically generated by mklabels.py

    webencodings.labels
    ~~~~~~~~~~~~~~~~~~~~

    Map encoding labels to their name.

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    LABELS = {
        ""]
    labels = [
        (repr(assert_lower(label)).lstrip('u'),
        repr(encoding['name']).lstrip('u'))
        for category in json.loads(urlopen(url).read().decode('ascii'))
        for encoding in category['encodings']
        for label in encoding['labels']]
    max_len = max(len(label) for label, name in labels)
    parts.extend(
        '    %s:%s %s,
' % (label, ' ' * (max_len - len(label)), name)
        for label, name in labels)
    parts.append('}

    return ''.join(parts)

    if __name__ == '__main__':
        print(generate('http://encoding.spec.whatwg.org/encodings.json'))

    Found in path(s):
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar.gz/webencodings-0.5/webencodings/mklabels.py
1.1123 giflib 5.1.4-0.3~16.04.1

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1.1124 syslog-java-client 1.1.7

1.1125 xmlschema 2.2.1

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1.1126 slf4j 1.7.0
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* /opt/ws_local/PERMITS_SQL/1068233887_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-
jar/io/netty/resolver/CompositeNameResolver.java
* /opt/ws_local/PERMITS_SQL/1068233887_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-
jar/io/netty/resolver/DefaultNameResolver.java
* /opt/ws_local/PERMITS_SQL/1068233887_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-
jar/io/netty/resolver/HostsFileEntriesResolver.java
* /opt/ws_local/PERMITS_SQL/1068233887_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-
jar/io/netty/resolver/AddressResolver.java
* /opt/ws_local/PERMITS_SQL/1068233887_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-
jar/io/netty/resolver/InetSocketAddressResolver.java
* /opt/ws_local/PERMITS_SQL/1068233887_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-
jar/io/netty/resolver/AbstractAddressResolver.java
* /opt/ws_local/PERMITS_SQL/1068233887_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-
jar/io/netty/resolver/HostsFileParser.java
* /opt/ws_local/PERMITS_SQL/1068233887_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-
jar/io/netty/resolver/InetNameResolver.java
* /opt/ws_local/PERMITS_SQL/1068233887_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-
jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
* /opt/ws_local/PERMITS_SQL/1068233887_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-
jar/io/netty/resolver/DefaultAddressResolverGroup.java

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- isprime.pod
- lap.pod
- mpi-test.pod
- prime.txt
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1.1139 libogg 1.3.2-1

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1.1140 istack-commons 3.0.5

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Manifest-Version: 1.0
Bundle-Description: istack common utility code
Implementation-Title: istack common utility code runtime
Bundle-License: https://glassfish.java.net/public/CDDL+GPL_1_1.html, https://glassfish.java.net/public/CDDL+GPL_1_1.html
Bundle-SymbolicName: com.sun.istack.commons-runtime
Implementation-Version: 3.0.5
Built-By: build
Bnd-LastModified: 1486772850426
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: com.sun.istack
Bundle-DocURL: http://www.oracle.com/
Bundle-Vendor: Oracle Corporation
Import-Package: javax.activation, javax.xml.namespace, javax.xml.stream, org.xml.sax, org.xml.sax.helpers
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.2.0.201605172007
Implementation-Vendor: Oracle Corporation
Export-Package: com.sun.istack;uses:="javax.activation, javax.xml.stream, org.xml.sax, org.xml.sax.helpers";version="3.0.5", com.sun.istack.logging;version="3.0.5"
Bundle-Name: istack common utility code runtime
Bundle-Version: 3.0.5
Implementation-Build-Id: tags/istack-commons-3.0.5-321, 2017-02-11T01:27:24+0100
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_112

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* /opt/cola/permits/1334904685_1653676440.7415743/0/istack-commons-runtime-3-0-5-jar/META-INF/MANIFEST.MF
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* /opt/cola/permits/1334904685_1653676440.7415743/0/istack-commons-runtime-3-0-5-jar/META-INF/maven/com.sun.istack/istack-commons-runtime/pom.xml

1.1141 thrift 0.13.0

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1.1142 simplejson 3.8.1-1ubuntu2

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1.1143 tar 1.28 2.1ubuntu0.1

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* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources-jar/io/netty/handler/stream/ChunkedNioFile.java
* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources-jar/io/netty/handler/timeout/ReadTimeoutHandler.java
* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources-jar/io/netty/handler/stream/ChunkedFile.java
* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources-jar/io/netty/handler/timeout/package-info.java
* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources-jar/io/netty/handler/stream/package-info.java
* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources-jar/io/netty/handler/stream/ChunkedWriteHandler.java
* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources-jar/io/netty/handler/stream/ChunkedNioStream.java
* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources-jar/io/netty/handler/ssl/package-info.java
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* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources-jar/io/netty/handler/stream/ChainedNioStream.java
* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources-jar/io/netty/handler/ssl/NotSslRecordException.java
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* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4.1.45-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficShapingHandler.java

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* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4.1.45-final-sources-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4.1.45-final-sources-jar/io/netty/handler/ssl/SslCompletionEvent.java
* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4.1.45-final-sources-jar/io/netty/handler/ssl/ocsp/package-info.java
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/* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources.jar/io/netty/handler/ssl/OptionalSslHandler.java */
/* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources.jar/io/netty/handler/ssl/SniCompletionEvent.java */
/* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources.jar/io/netty/handler/ssl/Java9SslUtils.java */
/* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources.jar/io/netty/handler/ssl/PseudoRandomFunction.java */
/* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources.jar/io/netty/handler/ssl/TrustManagerFactoryWrapper.java */
/* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources.jar/io/netty/handler/ssl/SslMasterKeyHandler.java */
/* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources.jar/io/netty/handler/ssl/KeyManagerFactoryWrapper.java */
/* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources.jar/io/netty/handler/address/DynamicAddressConnectHandler.java */
/* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources.jar/io/netty/handler/address/package-info.java */
/* /opt/cola/permits/1257282416_1642795753.21/0/netty-handler-4-1-45-final-sources.jar/io/netty/handler/address/package-info.java */
jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
 */

jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java

jar/io/netty/handler/ssl/Java8SslUtils.java

jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java

jar/io/netty/handler/ssl/PemValue.java

jar/io/netty/handler/ssl/OpenSslCertificateException.java

jar/io/netty/handler/ssl/PemX509Certificate.java

jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java

jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java

jar/io/netty/handler/flush/FlushConsolidationHandler.java

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1.1147 urllib3 1.13.1

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# Contributions to the urllib3 project

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* Andrey Petrov <andrey.petrov@shazow.net>

## 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@ravelosystems.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 <grafticolmingov@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

* Benjamen 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

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.
* Christian Pedersen <https://github.com/chripede>
* IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
* Fix low-level exceptions leaking from `HTTPResponse.stream()`.

* Predrag Gruevski <https://github.com/obi1kenobi>
* Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
* Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
* Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
* Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
* Bugfix related to reusing connections in indeterminate states.

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]

1.1148 xml-apis 1.3.04
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xml-commons/java/external/README.dom.txt $Id: README.dom.txt 477038 2006-11-20 04:40:36Z mrglavas $

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http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/

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    # questions.
    #
    # Version
    
    # Uses Fedora Core 6 fonts and file paths.
    version=1
# Component Font Mappings

dialog.plain.latin-1=DejaVu LGC Sans
dialog.plain.japanese-x0208=Sazanami Gothic
dialog.plain.korean=Baekmuk Gulim
dialog.plain.chinese-big5=AR PL ShanHeiSun Uni
dialog.plain.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.bold.latin-1=DejaVu LGC Sans Bold
dialog.bold.japanese-x0208=Sazanami Gothic
dialog.bold.korean=Baekmuk Gulim
dialog.bold.chinese-big5=AR PL ShanHeiSun Uni
dialog.bold.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.italic.latin-1=DejaVu LGC Sans Oblique
dialog.italic.japanese-x0208=Sazanami Gothic
dialog.italic.korean=Baekmuk Gulim
dialog.italic.chinese-big5=AR PL ShanHeiSun Uni
dialog.italic.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.bolditalic.latin-1=DejaVu LGC Sans Bold Oblique
dialog.bolditalic.japanese-x0208=Sazanami Gothic
dialog.bolditalic.korean=Baekmuk Gulim
dialog.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
dialog.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

sansserif.plain.latin-1=DejaVu LGC Sans
sansserif.plain.japanese-x0208=Sazanami Gothic
sansserif.plain.korean=Baekmuk Gulim
sansserif.plain.chinese-big5=AR PL ShanHeiSun Uni
sansserif.plain.chinese-gb18030=AR PL ShanHeiSun Uni

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sansserif.bold.japanese-x0208=Sazanami Gothic
sansserif.bold.korean=Baekmuk Gulim
sansserif.bold.chinese-big5=AR PL ShanHeiSun Uni
sansserif.bold.chinese-gb18030=AR PL ShanHeiSun Uni

sansserif.italic.latin-1=DejaVu LGC Sans Oblique
sansserif.italic.japanese-x0208=Sazanami Gothic
sansserif.italic.korean=Baekmuk Gulim
sansserif.italic.chinese-big5=AR PL ShanHeiSun Uni
sansserif.italic.chinese-gb18030=AR PL ShanHeiSun Uni

sansserif.bolditalic.latin-1=DejaVu LGC Sans Bold Oblique
sansserif.bolditalic.japanese-x0208=Sazanami Gothic
sansserif.bolditalic.korean=Baekmuk Gulim
monospaced.bolditalic.japanese-x0208=Sazanami Gothic
monospaced.bolditalic.korean=Baekmuk Gulim
monospaced.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
monospaced.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.plain.latin-1=DejaVu LGC Sans Mono
dialoginput.plain.japanese-x0208=Sazanami Gothic
dialoginput.plain.korean=Baekmuk Gulim
dialoginput.plain.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.plain.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.bold.latin-1=DejaVu LGC Sans Mono Bold
dialoginput.bold.japanese-x0208=Sazanami Gothic
dialoginput.bold.korean=Baekmuk Gulim
dialoginput.bold.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.bold.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.italic.latin-1=DejaVu LGC Sans Mono Oblique
dialoginput.italic.japanese-x0208=Sazanami Gothic
dialoginput.italic.korean=Baekmuk Gulim
dialoginput.italic.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.italic.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.bolditalic.latin-1=DejaVu LGC Sans Mono Bold Oblique
dialoginput.bolditalic.japanese-x0208=Sazanami Gothic
dialoginput.bolditalic.korean=Baekmuk Gulim
dialoginput.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

# Search Sequences

sequence.allfonts=latin-1
sequence.allfonts.Big5=chinese-big5,latin-1
sequence.allfonts.x-euc-jp-bsd=japanese-x0208,latin-1
sequence.allfonts.EUC-KR=korean,latin-1
sequence.allfonts.GB18030=chinese-gb18030,latin-1
sequence.fallback=chinese-big5,chinese-gb18030,japanese-x0208,korean

# Font File Names

filename.DejaVu_LGC_Sans=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans.ttf
filename.DejaVu_LGC_Sans-Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Bold.ttf
filename.DejaVu_LGC_Sans_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Oblique.ttf
filename.DejaVu_LGC_Sans_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-BoldOblique.ttf
filename.DejaVu_LGC_Sans_Mono=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono.ttf
filename.DejaVu_LGC_Sans_Mono_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Bold.ttf
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Version 2, June 1991

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 */
package java.lang;

import java.io.BufferedInputStream;
import java.io.BufferedOutputStream;
import java.io.ByteArrayInputStream;
import java.io.FileDescriptor;
import java.io.FileInputStream;
import java.io.FileOutputStream;
import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.util.Arrays;
import java.util.Locale;
import java.util.concurrent.Executors;
import java.util.concurrent.Executor;
import java.util.concurrent.ThreadFactory;
import java.security.AccessController;
import static java.security.AccessController.doPrivileged;
import java.security.PrивilegedAction;
import java.security.PrивilegedActionException;
import java.security.PrивilegedExceptionAction;

/**
 * java.lang.Process subclass in the UNIX environment.
 *
 * @author Mario Wolczko and Ross Knippel.
 * @author Konstantin Kladko (ported to Bsd)
 * @author Martin Buchholz
 */
final class UNIXProcess extends Process {
    private static final sun.misc.JavaIOFileDescriptorAccess fdAccess
        = sun.misc.SharedSecrets.getJavaIOFileDescriptorAccess();

    private final int pid;
    private int exitcode;
    private boolean hasExited;
    private /* final */ OutputStream stdin;
    private /* final */ InputStream stdout;
    private /* final */ InputStream stderr;

    private static enum LaunchMechanism {
        FORK(1),
        POSIX_SPAWN(2);
    }

    private final int int pid;
    private final int exitcode;
    private boolean hasExited;

    private /* final */ final /* */ OutputStream stdin;
    private /* final */ final /* */ InputStream stdout;
    private /* final */ final /* */ InputStream stderr;

    private static enum LaunchMechanism {
        FORK(1),
        POSIX_SPAWN(2);
private int value;
LaunchMechanism(int x) {value = x;}

/* On BSD, the default is to spawn */
private static final LaunchMechanism launchMechanism;
private static byte[] helperpath;

private static byte[] toCString(String s) {
  if (s == null)
    return null;
  byte[] bytes = s.getBytes();
  byte[] result = new byte[bytes.length + 1];
  System.arraycopy(bytes, 0,
                  result, 0,
                  bytes.length);
  result[result.length-1] = (byte)0;
  return result;
}

static {
  launchMechanism = AccessController.doPrivileged(
              new PrivilegedAction<LaunchMechanism>()
  {
    public LaunchMechanism run() {
      String javahome = System.getProperty("java.home");

      helperpath = toCString(javahome + "/lib/jspawnhelper");
      String s = System.getProperty(
          "jdk.lang.Process.launchMechanism", "posix_spawn");

      try {
        return LaunchMechanism.valueOf(s.toUpperCase(Locale.ENGLISH));
      } catch (IllegalArgumentException e) {
        throw new Error(s + " is not a supported " +
                         "process launch mechanism on this platform.");
      }
  });
}

/* this is for the reaping thread */
private native int waitForProcessExit(int pid);

/**
 * Create a process. Depending on the mode flag, this is done by
 * one of the following mechanisms.
* - fork(2) and exec(2)
* - posix_spawn(2)
*
* @param fds an array of three file descriptors.
* Indexes 0, 1, and 2 correspond to standard input,
* standard output and standard error, respectively. On
* input, a value of -1 means to create a pipe to connect
* child and parent processes. On output, a value which
* is not -1 is the parent pipe fd corresponding to the
* pipe which has been created. An element of this array
* is -1 on input if and only if it is <em>not</em> -1 on
* output.
* @return the pid of the subprocess
*/

private native int forkAndExec(int mode, byte[] helperpath,
    byte[] prog,
    byte[] argBlock, int argc,
    byte[] envBlock, int envc,
    byte[] dir,
    int[] fds,
    boolean redirectErrorStream)
    throws IOException;

/**
* The thread factory used to create "process reaper" daemon threads.
*/

private static class ProcessReaperThreadFactory implements ThreadFactory {
    private final static ThreadGroup group = getRootThreadGroup();

    private static ThreadGroup getRootThreadGroup() {
        return doPrivileged(new PrivilegedAction<ThreadGroup>() {
            public ThreadGroup run() {
                ThreadGroup root = Thread.currentThread().getThreadGroup();
                while (root.getParent() != null)
                    root = root.getParent();
                return root;
            }
        });
    }

    public Thread newThread(Runnable grimReaper) {
        // Our thread stack requirement is quite modest.
        Thread t = new Thread(group, grimReaper, "process reaper", 32768);
        t.setDaemon(true);
        // A small attempt (probably futile) to avoid priority inversion
        t.setPriority(Thread.MAX_PRIORITY);
        return t;
    }
}
/**
 * The thread pool of "process reaper" daemon threads.
 */

private static final Executor processReaperExecutor =
  doPrivileged(new PrivilegedAction<Executor>() {
    public Executor run() {
      return Executors.newCachedThreadPool
        (new ProcessReaperThreadFactory());
    }
  });

UNIXProcess(final byte[] prog,
final byte[] argBlock, final int argc,
final byte[] envBlock, final int envc,
final byte[] dir,
fds,
final boolean redirectErrorStream)
throws IOException {

  pid = forkAndExec(launchMechanism.value,
    helperpath,
    prog,
    argBlock, argc,
    envBlock, envc,
    dir,
    fds,
    redirectErrorStream);

  try {
    doPrivileged(new PrivilegedExceptionAction<Void>() {
      public Void run() throws IOException {
        initStreams(fds);
        return null;
      }
    });
  } catch (PrivilegedActionException ex) {
    throw (IOException) ex.getException();
  }

  static FileDescriptor newFileDescriptor(int fd) {
    FileDescriptor fileDescriptor = new FileDescriptor();
    fdAccess.set(fileDescriptor, fd);
    return fileDescriptor;
  }

  void initStreams(int[] fds) throws IOException {
    stdin = (fds[0] == -1) ?
      ProcessBuilder.NullOutputStream.INSTANCE :
      ProcessBuilder.PIPE_INPUT;
  }
}
new ProcessPipeOutputStream(fds[0]);

stdout = (fds[1] == -1) ?
  ProcessBuilder.NullInputStream.INSTANCE :
  new ProcessPipeInputStream(fds[1]);

stderr = (fds[2] == -1) ?
  ProcessBuilder.NullInputStream.INSTANCE :
  new ProcessPipeInputStream(fds[2]);

processReaperExecutor.execute(new Runnable() {
  public void run() {
    int exitcode = waitForProcessExit(pid);
    UNIXProcess.this.processExited(exitcode);
  }
});

void processExited(int exitcode) {
  synchronized (this) {
    this.exitcode = exitcode;
    hasExited = true;
    notifyAll();
  }
}

if (stdout instanceof ProcessPipeInputStream)
  ((ProcessPipeInputStream) stdout).processExited();

if (stderr instanceof ProcessPipeInputStream)
  ((ProcessPipeInputStream) stderr).processExited();

if (stdin instanceof ProcessPipeOutputStream)
  ((ProcessPipeOutputStream) stdin).processExited();

public OutputStream getOutputStream() {
  return stdin;
}

public InputStream getInputStream() {
  return stdout;
}

public InputStream getErrorStream() {
  return stderr;
}

public synchronized int waitFor() throws InterruptedException {
  while (!hasExited) {

wait();
}
return exitcode;
}

public synchronized int exitValue() {
if (!hasExited) {
    throw new IllegalThreadStateException("process hasn't exited");
}
return exitcode;
}

private static native void destroyProcess(int pid);
public void destroy() {
    // There is a risk that pid will be recycled, causing us to
    // kill the wrong process! So we only terminate processes
    // that appear to still be running. Even with this check,
    // there is an unavoidable race condition here, but the window
    // is very small, and OSes try hard to not recycle pids too
    // soon, so this is quite safe.
    synchronized (this) {
        if (!hasExited)
            destroyProcess(pid);
    }
    try { stdin.close(); } catch (IOException ignored) {}
    try { stdout.close(); } catch (IOException ignored) {}
    try { stderr.close(); } catch (IOException ignored) {}
}

private static native void init();

static {
    init();
}

/**
 * A buffered input stream for a subprocess pipe file descriptor
 * that allows the underlying file descriptor to be reclaimed when
 * the process exits, via the processExited hook.
 *
 * This is tricky because we do not want the user-level InputStream to be
 * closed until the user invokes close(), and we need to continue to be
 * able to read any buffered data lingering in the OS pipe buffer.
 */
static class ProcessPipeInputStream extends BufferedInputStream {
    private final Object closeLock = new Object();

    ProcessPipeInputStream(int fd) {
super(new FileInputStream(newFileDescriptor(fd)));  
}

private static byte[] drainInputStream(InputStream in)
    throws IOException {
    int n = 0;
    int j;
    byte[] a = null;
    while ((j = in.available()) > 0) {
        a = (a == null) ? new byte[j] : Arrays.copyOf(a, n + j);
        n += in.read(a, n, j);
    }
    return (a == null || n == a.length) ? a : Arrays.copyOf(a, n);
}

/**
 * Called by the process reaper thread when the process exits. */
 synchronized void processExited() {
    synchronized (closeLock) {
        try {
            InputStream in = this.in;
            // this stream is closed if and only if: in == null
            if (in != null) {
                byte[] stragglers = drainInputStream(in);
                in.close();
                this.in = (stragglers == null) ?
                    ProcessBuilder.NullInputStream.INSTANCE :
                    new ByteArrayInputStream(stragglers);
            }
        } catch (IOException ignored) {} 
    }
}

@Override
public void close() throws IOException {
    // BufferedInputStream#close() is not synchronized unlike most other methods.
    // Synchronizing helps avoid race with processExited().
    synchronized (closeLock) {
        super.close();
    }
}

/**
 * A buffered output stream for a subprocess pipe file descriptor
 * that allows the underlying file descriptor to be reclaimed when
 * the process exits, via the processExited hook.
 */
 static class ProcessPipeOutputStream extends OutputStream {
    ProcessPipeOutputStream(int fd) {

super(new FileOutputStream(newFileDescriptor(fd)));
}

/** Called by the process reaper thread when the process exits. */
synchronized void processExited() {
    OutputStream out = this.out;
    if (out != null) {
        try {
            out.close();
        } catch (IOException ignored) {
            // We know of no reason to get an IOException, but if
            // we do, there's nothing else to do but carry on.
        }
        this.out = ProcessBuilder.NullOutputStream.INSTANCE;
    }
}

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Java_java_nio_MappedByteBuffer_isLoaded0;
Java_java_nio_MappedByteBuffer_load0;
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Java_sun_nio_fs_UnixNativeDispatcher_renameat0;
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Java_sun_nio_fs_UnixNativeDispatcher_symlink0;
Java_sun_nio_fs_UnixNativeDispatcher_readlink0;
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    printf("%s", png_get_copyright(NULL));

Also, the PNG logo (in PNG format, of course) is supplied in the files "pngbar.png" and "pngbar.jpg (88x31) and "pngnow.png" (98x31).

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Glenn Randers-Pehrson
glenrp at users.sourceforge.net
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 */

package java.security;

/*
 * Abstract class for representing access to a system resource.
 * All permissions have a name (whose interpretation depends on the subclass),
 * as well as abstract functions for defining the semantics of the
 * particular Permission subclass.
 *
 * Most Permission objects also include an "actions" list that tells the actions
 * that are permitted for the object. For example,
 * for a <code>java.io.FilePermission</code> object, the permission name is
 * the pathname of a file (or directory), and the actions list
 * (such as "read, write") specifies which actions are granted for the
 * open flex h5 platform
 */
* specified file (or for files in the specified directory).
* The actions list is optional for Permission objects, such as
* <code>java.lang.RuntimePermission</code>,
* that don't need such a list; you either have the named permission (such
* as "system.exit") or you don't.
*
* <p>An important method that must be implemented by each subclass is
* the <code>implies</code> method to compare Permissions. Basically,
* "permission p1 implies permission p2" means that
* if one is granted permission p1, one is naturally granted permission p2.
* Thus, this is not an equality test, but rather more of a
* subset test.
*
* <p>Permission objects are similar to String objects in that they
* are immutable once they have been created. Subclasses should not
* provide methods that can change the state of a permission
* once it has been created.
*
* @see Permissions
* @see PermissionCollection
*
* @author Marianne Mueller
* @author Roland Schemers
*/

public abstract class Permission implements Guard, java.io.Serializable {

private static final long serialVersionUID = -5636570222231596674L;

private String name;

/**
 * Constructs a permission with the specified name.
 *
 * @param name name of the Permission object being created.
 *
 */

public Permission(String name) {
    this.name = name;
}

/**
 * Implements the guard interface for a permission. The
 * <code>SecurityManager.checkPermission</code> method is called,
 * passing this permission object as the permission to check.
 * Returns silently if access is granted. Otherwise, throws

* a SecurityException.
* @param object the object being guarded (currently ignored).
* @throws SecurityException
* if a security manager exists and its
* <code>checkPermission</code> method doesn't allow access.
* @see Guard
* @see GuardedObject
* @see SecurityManager#checkPermission
*/

public void checkGuard(Object object) throws SecurityException {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null) sm.checkPermission(this);
}

/**
* Checks if the specified permission's actions are "implied by"
* this object's actions.
* @param permission the permission to check against.
* @return true if the specified permission is implied by this object,
* false if not.
*/

public abstract boolean implies(Permission permission);

/**
* Checks two Permission objects for equality.
* @param obj the object we are testing for equality with this object.
* @return true if both Permission objects are equivalent.
*/
public abstract boolean equals(Object obj);

/**
 * Returns the hash code value for this Permission object.
 * <p>
 * The required <code>hashCode</code> behavior for Permission Objects is
 * the following: <p>
 * <ul>
 * <li>Whenever it is invoked on the same Permission object more than
 * once during an execution of a Java application, the
 * <code>hashCode</code> method
 * must consistently return the same integer. This integer need not
 * remain consistent from one execution of an application to another
 * execution of the same application. <p>
 * <li>If two Permission objects are equal according to the
 * <code>equals</code> method, then calling the <code>hashCode</code> method on each of the
 * two Permission objects must produce the same integer result.
 * </ul>
 * @return a hash code value for this object.
 */

public abstract int hashCode();

/**
 * Returns the name of this Permission.
 * For example, in the case of a <code>java.io.FilePermission</code>,
 * the name will be a pathname.
 * @return the name of this Permission.
 */

public final String getName() {
    return name;
}

/**
 * Returns the actions as a String. This is abstract
 * so subclasses can defer creating a String representation until
 * one is needed. Subclasses should always return actions in what they
 * consider to be their
 * canonical form. For example, two FilePermission objects created via
 * the following:
 * <pre>
 * perm1 = new FilePermission(p1,"read,write");
 */
perm2 = new FilePermission(p2,"write,read");
</pre>
both return
"read,write" when the <code>getActions</code> method is invoked.

@return the actions of this Permission.

*/

public abstract String getActions();

/**
 * Returns an empty PermissionCollection for a given Permission object, or null if
 * one is not defined. Subclasses of class Permission should
 * override this if they need to store their permissions in a particular
 * PermissionCollection object in order to provide the correct semantics
 * when the <code>PermissionCollection.implies</code> method is called.
 * If null is returned,
 * then the caller of this method is free to store permissions of this
 * type in any PermissionCollection they choose (one that uses a Hashtable,
 * one that uses a Vector, etc).
 * @return a new PermissionCollection object for this type of Permission, or
 * null if one is not defined.
 */

public PermissionCollection newPermissionCollection() {
    return null;
}

/**
 * Returns a string describing this Permission. The convention is to
 * specify the class name, the permission name, and the actions in
 * the following format: '("ClassName" "name" "actions")', or
 * '("ClassName" "name")' if actions list is null or empty.
 * @return information about this Permission.
 */

public String toString() {
    String actions = getActions();
    if ((actions == null) || (actions.length() == 0)) { // OPTIONAL
        return "(" + getClass().getName() + " ", " + name + ")";
    } else {
        return "(" + getClass().getName() + " ", " + name + " ", " + actions + ")";
    }
}
# Define public interface for libawt.so on Bsd.
# Bsd port does not use mawt, all public symbols are in libawt.so

SUNWprivate_1.1 {
    global:
    JNI_OnLoad;

    Java_java_awt_CheckboxMenuItem_initIDs;
    Java_java_awt_Color_initIDs;
    Java_java_awt_FontMetrics_initIDs;
    Java_java_awt_image_BufferedImage_initIDs;
    Java_sun_awt_image_DataBufferNative_getElem;
    Java_sun_awt_image_DataBufferNative_setElem;
    Java_java_awt_image_ColorModel_initIDs;
    Java_java_awt_image_ComponentSampleModel_initIDs;
    Java_java_awt_image_IndexColorModel_initIDs;
    Java_java_awt_image_Kernel_initIDs;
    Java_java_awt_image_Raster_initIDs;
    Java_java_awt_image_SampleModel_initIDs;
    Java_java_awt_Label_initIDs;
    Java_java_awt_ScrollPaneAdjustable_initIDs;
Java java.awt.Toolkit_initIDs;
Java java.awt.TrayIcon_initIDs;
   Java sun.awt.DebugSettings_setCTracingOn__Z;
   Java sun.awt.DebugSettings_setCTracingOn__ZLjava.lang.String_2;
   Java sun.awt.DebugSettings_setCTracingOn__ZLjava.lang.String_2I;
Java sun.awt.image.ByteComponentRaster_initIDs;
Java sun.awt.image.GifImageDecoder_initIDs;
Java sun.awt.image.GifImageDecoder_parseImage;
Java sun.awt.image.Image_initIDs;
Java sun.awt.image.ImageRepresentation_initIDs;
Java sun.awt.image.ImageRepresentation_setDiffICM;
Java sun.awt.image.ImageRepresentation_setICMPixels;
Java sun.awt.image.ImagingLib_convolveBI;
Java sun.awt.image.ImagingLib_convolveRaster;
Java sun.awt.image.ImagingLib_init;
Java sun.awt.image.ImagingLib_transformBI;
Java sun.awt.image.ImagingLib_transformRaster;
Java sun.awt.image.IntegerComponentRaster_initIDs;
Java sun.awt.image.ShortComponentRaster_initIDs;
Java sun.java2d.pipe.SpanClipRenderer_eraseTile;
Java sun.java2d.pipe.SpanClipRenderer_fillTile;
   Java sun.java2d.pipe.SpanClipRenderer_addSegment;
   Java sun.java2d.pipe.SpanClipRenderer_moveTo;
   Java sun.java2d.pipe.SpanClipRenderer_lineTo;
   Java sun.java2d.pipe.SpanClipRenderer_quadTo;
   Java sun.java2d.pipe.SpanClipRenderer_curveTo;
   Java sun.java2d.pipe.SpanClipRenderer_closePath;
   Java sun.java2d.pipe.SpanClipRenderer_pathDone;
   Java sun.java2d.pipe.SpanClipRenderer_getNativeConsumer;
   Java sun.java2d.pipe.SpanClipRenderer_appendPoly;
   Java sun.java2d.pipe.SpanClipRenderer_dispose;
   Java sun.java2d.pipe.SpanClipRenderer_getNativeIterator;
   Java sun.java2d.pipe.SpanClipRenderer_getPathBox;
   Java sun.java2d.pipe.SpanClipRenderer_initIDs;
   Java sun.java2d.pipe.SpanClipRenderer_intersectClipBox;
   Java sun.java2d.pipe.SpanClipRenderer_nextSpan;
   Java sun.java2d.pipe.SpanClipRenderer_setNormalize;
   Java sun.java2d.pipe.SpanClipRenderer_setOutputAreaXYXY;
   Java sun.java2d.pipe.SpanClipRenderer_setRule;
   Java sun.java2d.pipe.SpanClipRenderer_skipDownTo;

Java java.awt.Dimension_initIDs;
Java java.awt.event.MouseEvent_initIDs;
Java java.awt.image.DataBufferInt_initIDs;
Java java.awt.image.SinglePixelPackedSampleModel_initIDs;
Java java.awt.Rectangle_initIDs;
Java sun.awt.image.BufImgSurfaceData_getSurfaceData;
Java sun.awt.image.BufImgSurfaceData_initIDs;
Java_sun_awt_image_BufImgSurfaceData_initRaster;
Java_sun_awt_image_BufImgSurfaceData_setSurfaceData;
    Java_sun_awt_image_BufImgSurfaceData_freeNativeICMData;
Java_sun_awt_imageBytePackedRaster_initIDs;
Java_sun_awt_image_ImagingLib_lookupByteBI;
Java_sun_awt_image_ImagingLib_lookupByteRaster;
Java_sun_java2d_SurfaceData_initIDs;
Java_sun_java2d_SurfaceData_isOpaqueGray;
Java_sun_java2d_Disposer_initIDs;
Java_sun_java2d_DefaulDisposerRecord_invokeNativeDispose;
Java_sun_java2d_loops_BlitBg_BlitBg;
Java_sun_java2d_loops_Blit_Blit;
Java_sun_java2d_loops_ScaledBlit_Scale;
Java_sun_java2d_loops_DrawLine_DrawLine;
Java_sun_java2d_loops_DrawPolygons_DrawPolygons;
Java_sun_java2d_loops_DrawRect_DrawRect;
Java_sun_java2d_loops_FillRect_FillRect;
Java_sun_java2d_loops_FillSpans_FillSpans;
Java_sun_java2d_loops_GraphicsPrimitiveMgr_initIDs;
Java_sun_java2d_loops_GraphicsPrimitiveMgr_registerNativeLoops;
Java_sun_java2d_loops_MaskBlit_MaskBlit;
Java_sun_java2d_loops_MaskFill_MaskFill;
Java_sun_java2d_loops_MaskFill_FillAAPgram;
Java_sun_java2d_loops_MaskFill_DrawAAPgram;
    Java_sun_java2d_pipe_BufferedRenderPipe_fillSpans;
Java_sun_java2d_pipe_SpanClipRenderer_initIDs;
sun_awt_image_GifImageDecoder_initIDs;

# libmawt entry points
SurfaceData_InitOps;
SurfaceData_ThrowInvalidPipeException;
    Region_GetBounds;
    Region_GetInfo;
    Region_StartIteration;
    Region_CountIterationRects;
    Region_NextIteration;
    Region_EndIteration;
    GrPrim_CompGetXorInfo;
    GrPrim_CompGetAlphaInfo;
img_makePalette;
initInverseGrayLut;
mke_dither_arrays;
make_uns_ordered_dither_array;

# variables exported to libmawt
std_img_oda_red;
std_img_oda_blue;
std_img_oda_green;
std_odas_computed;
g_CMpDataID;
colorValueID;

jvm;

# CDE private entry point
# This is in awt_LoadLibrary.c and falls through to libmawt.
# Evidently CDE needs this for backward compatibility.
Java_sun_awt_motif_XsessionWMcommand;

# Java Plugin
# This is in awt_LoadLibrary.c and falls through to libmawt.
# Evidently plugin needs this for backward compatibility.
getAwtLockFunctions;
getAwtData;
getAwtDisplay;

# libfontmanager entry points
AWTIsHeadless;
GrPrim_Sg2dGetCompInfo;
GrPrim_Sg2dGetClip;
GetNativePrim;
SurfaceData_IntersectBounds;
SurfaceData_GetOps;
Disposer_AddRecord;
GrPrim_Sg2dGetEaRGB;
GrPrim_Sg2dGetPixel;
GrPrim_Sg2dGetLCDTextContrast;

#Java_sun_awt_motif_MComponentPeer_restoreFocus;
Java_sun_awt_DefaultMouseInfoPeer_fillPointWithCoords;
Java_sun_awt_DefaultMouseInfoPeer_isWindowUnderMouse;
Java_java_awt_AWTEvent_nativeSetSource;
Java_java_awt_Checkbox_initIDs;
Java_java_awt_Component_initIDs;
Java_java_awt_Dialog_initIDs;
Java_java_awt_Font_initIDs;
Java_sun_awt_KeyboardFocusManagerPeerImpl_clearNativeGlobalFocusOwner;
Java_sun_awt_KeyboardFocusManagerPeerImpl_getNativeFocusOwner;
Java_sun_awt_KeyboardFocusManagerPeerImpl_getNativeFocusedWindow;
Java_java_awt_KeyboardFocusManager_initIDs;
Java_java_awt_Menu_initIDs;
Java_java_awt_MenuComponent_initIDs;
Java_java_awt_MenuItem_initIDs;
Java_java_awt_Scrollbar_initIDs;
Java_java_awt_ScrollPane_initIDs;
Java_java_awt_TextArea_initIDs;
Java_sun_awt_FontDescriptor_initIDs;
#Java_sun_awt_motif_MButtonPeer_create;
#Java_sun_awt_motif_MButtonPeer_setLabel;
#Java_sun_awt_motif_MCanvasPeer_create;
#Java_sun_awt_motif_MCanvasPeer_initIDs;
#Java_sun_awt_motif_MCanvasPeer_resetTargetGC;
#Java_sun_awt_motif_MCheckboxMenuItemPeer_pSetState;
#Java_sun_awt_motif_MCheckboxPeer_create;
#Java_sun_awt_motif_MCheckboxPeer_setCheckboxGroup;
#Java_sun_awt_motif_MCheckboxPeer_setLabel;
#Java_sun_awt_motif_MCheckboxPeer_pSetState;
#Java_sun_awt_motif_MCheckboxPeer_pGetState;
#Java_sun_awt_motif_MChoicePeer_addItem;
#Java_sun_awt_motif_MChoicePeer_appendItems;
#Java_sun_awt_motif_MChoicePeer_create;
#Java_sun_awt_motif_MChoicePeer_pReshape;
#Java_sun_awt_motif_MChoicePeer_remove;
#Java_sun_awt_motif_MChoicePeer_removeAll;
#Java_sun_awt_motif_MChoicePeer_setBackground;
#Java_sun_awt_motif_MChoicePeer_pSelect;
#Java_sun_awt_motif_MChoicePeer_setFont;
#Java_sun_awt_motif_MChoicePeer_setForeground;
#Java_sun_awt_motif_MComponentPeer_addNativeDropTarget;
#Java_sun_awt_motif_MComponentPeer_createBackBuffer;
#Java_sun_awt_motif_MComponentPeer_destroyBackBuffer;
#Java_sun_awt_motif_MComponentPeer_getNativeColor;
#Java_sun_awt_motif_MComponentPeer_getWindow;
#Java_sun_awt_motif_MComponentPeer_pDisable;
#Java_sun_awt_motif_MComponentPeer_pDispose;
#Java_sun_awt_motif_MComponentPeer_pEnable;
#Java_sun_awt_motif_MComponentPeer_pGetLocationOnScreen;
#Java_sun_awt_motif_MComponentPeer_pGetLocationOnScreen2;
#Java_sun_awt_motif_MComponentPeer_pHide;
#Java_sun_awt_motif_MComponentPeer_pInitialize;
#Java_sun_awt_motif_MComponentPeer_pMakeCursorVisible;
#Java_sun_awt_motif_MComponentPeer_pReshape;
#Java_sun_awt_motif_MComponentPeer_pShow;
#Java_sun_awt_motif_MComponentPeer_removeNativeDropTarget;
#Java_sun_awt_motif_MComponentPeer_swapBuffers;
#Java_sun_awt_motif_MComponentPeer_pSetBackground;
#Java_sun_awt_motif_MComponentPeer_pSetFont;
    #Java_sun_awt_motif_MComponentPeer_processSynchronousLightweightTransfer;
    #Java_sun_awt_motif_MComponentPeer__1requestFocus;
    #Java_sun_awt_motif_MCheckboxMenuItemPeer_getState;
    #Java_sun_awt_motif_MComponentPeer_pGetForeground;
    #Java_sun_awt_motif_MDragSourceContextPeer_startDrag;
    #Java_sun_awt_motif_MDragSourceContextPeer_setNativeCursor;
    #Java_sun_awt_motif_MDropTargetContextPeer_addTransfer;
    #Java_sun_awt_motif_MDropTargetContextPeer_dropDone;
Java_sun_awt_motif_X11FontMetrics_init;
Java_sun_awt_X11InputMethod_disposeXIC;
Java_sun_awt_X11InputMethod_isCompositionEnabledNative;
Java_sun_awt_X11InputMethod_resetXIC;
Java_sun_awt_X11InputMethod_setCompositionEnabledNative;
Java_sun_awt_X11InputMethod_turnoffStatusWindow;
#Java_sun_awt_motif_MInputMethod_openXIMNative;
#Java_sun_awt_motif_MInputMethod_configureStatusAreaNative;
#Java_sun_awt_motif_MInputMethod_createXICNative;
#Java_sun_awt_motif_MInputMethod_reconfigureXICNative;
#Java_sun_awt_motif_MInputMethod_setXICFocusNative;
Java_sun_awt_motif_X11Clipboard_getClipboardData;
#Java_sun_awt_motif_X11Clipboard_getClipboardFormats;
#Java_sun_awt_motif_X11Clipboard_registerClipboardViewer;
#Java_sun_awt_motif_X11Clipboard_unregisterClipboardViewer;
#Java_sun_awt_motif_X11Selection_init;
#Java_sun_awt_motif_X11Selection_pGetSelectionOwnership;
#Java_sun_awt_motif_X11Selection_clearNativeContext;
Java_sun_awt_SunToolkit_closeSplashScreen;
Java_sun_awt_PlatformFont_initIDs;
Java_sun_awt_X11GraphicsConfig_init;
Java_sun_awt_X11GraphicsConfig_dispose;
Java_sun_awt_X11GraphicsConfig_pGetBounds;
Java_sun_awt_X11GraphicsConfig_getNumColors;
Java_sun_awt_X11GraphicsConfig_getXResolution;
Java_sun_awt_X11GraphicsConfig_getYResolution;
Java_sun_awt_X11GraphicsConfig_isTranslucencyCapable;
Java_sun_awt_X11GraphicsDevice_isDBESupported;
Java_sun_awt_X11GraphicsDevice_getDisplay;
Java_sun_awt_X11GraphicsDevice_getDoubleBufferVisuals;
Java_sun_awt_X11GraphicsDevice_getNumConfigs;
Java_sun_awt_X11GraphicsDevice_initIDs;
Java_sun_awt_X11GraphicsDevice_initXrandrExtension;
Java_sun_awt_X11GraphicsDevice_enterFullScreenExclusive;
Java_sun_awt_X11GraphicsDevice_exitFullScreenExclusive;
Java_sun_awt_X11GraphicsDevice_getCurrentDisplayMode;
Java_sun_awt_X11GraphicsDevice_enumDisplayModes;
Java_sun_awt_X11GraphicsDevice_configDisplayMode;
Java_sun_awt_X11GraphicsDevice_setXICFocus;
Java_sun_awt_X11GraphicsEnvironment_checkShmExt;
Java_java_awt_AWTEvent_initIDs;
Java_java_awt_Button_initIDs;
Java_java_awt_Container_initIDs;
Java_java_awt_Cursor_finalizeImpl;
Java_java_awt_Cursor_initIDs;
Java_java_awt_Event_initIDs;
Java_java_event_InputEvent_initIDs;
Java_java_event_KeyEvent_initIDs;
Java_java_FileDialog_initIDs;
Java_java_Frame_initIDs;
Java_java_Insets_initIDs;
Java_java_TextField_initIDs;
Java_java_Window_initIDs;
Java_sun_awt_motif_MCheckboxPeer_getIndicatorSize;
Java_sun_awt_motif_MCheckboxPeer_getSpacing;
Java_sun_awt_motif_MChoicePeer_freeNativeData;
Java_sun_awt_motif_MComponentPeer_getComponents_1NoClientCode;
Java_sun_awt_motif_MComponentPeer_getParent_1NoClientCode;
Java_sun_awt_motif_MComponentPeer_initIDs;
Java_sun_awt_motif_MComponentPeer_nativeHandleEvent;
Java_sun_awt_motif_MComponentPeer_pSetCursor;
Java_sun_awt_motif_MComponentPeer_pSetInnerForeground;
Java_sun_awt_motif_MComponentPeer_pSetScrollbarBackground;
Java_sun_awt_motif_MComponentPeer_setTargetBackground;
Java_sun_awt_motif_MDataTransferer_dragQueryFile;
Java_sun_awt_motif_MDataTransferer_getAtomForTarget;
Java_sun_awt_motif_MDataTransferer_getTargetNameForAtom;
Java_sun_awt_motif_MFileDialogPeer_insertReplaceFileDialogText;
Java_sun_motif_MFontPeer_initIDs;
Java_sun_awt_motif_MListPeer_setBackground;
Java_sun_awt_motif_MMenuBarPeer_initIDs;
Java_sun_awt_motif_MMenuBarPeer_pDispose;
Java_sun_awt_motif_MMenuItemPeer_getParent_1NoClientCode;
Java_sun_awt_motif_MMenuItemPeer_initIDs;
Java_sun_awt_motif_MMenuItemPeer_pSetShortcut;
Java_sun_awt_motif_MPopupMenuPeer_initIDs;
Java_sun_awt_motif_MScrollBarPeer_initIDs;
Java_sun_awt_motif_MScrollBarPanePeer_initIDs;
Java_sun_awt_motif_MTextAreaPeer_pSetCursor;
Java_sun_awt_motif_MToolkit_shutdown;
Java_sun_awt_motif_MWindowPeer_initIDs;
Java_sun_awt_motif_MWindowPeer_pCreate;
Java_sun_awt_motif_MWindowPeer_wrapInSequenced;
Java_sun_awt_motif_X11FontMetrics_initIDs;
Java_sun_awt_X11InputMethod_initIDs;
Java_sun_awt_motif_X11OffScreenImage_updateBitmask;
#Java_sun_awt_motif_X11Selection_initIDs;
Java_sun_awt_motif_MToolkitThreadBlockedHandler_enter;
Java_sun_awt_motif_MToolkitThreadBlockedHandler_exit;
Java_sun_awt_X11GraphicsConfig_init;
Java_sun_awt_X11GraphicsConfig_initIDs;
Java_sun_awt_X11GraphicsConfig_makeColorModel;
Java_sun_awt_X11GraphicsDevice_getConfigVisualId;
Java_sun_awt_X11PMBlitLoops_Blit;
Java_sun_awt_X11PMBlitBgLoops_nativeBlitBg;
Java_sun_awt_X11Renderer_devFillSpans;
Java_sun_awt_X11Renderer_doDrawArc;
Java_sun_awt_X11Renderer_doDrawLine;
Java_sun_awt_X11Renderer_doDrawOval;
Java_sun_awt_X11Renderer_doDrawPoly;
Java_sun_awt_X11Renderer_doDrawRect;
Java_sun_awt_X11Renderer_doDrawRoundRect;
Java_sun_awt_X11Renderer_doFillArc;
Java_sun_awt_X11Renderer_doFillOval;
Java_sun_awt_X11Renderer_doFillPoly;
Java_sun_awt_X11Renderer_doFillRect;
Java_sun_awt_X11Renderer_doFillRoundRect;
Java_sun_awt_X11SurfaceData_initIDs;
Java_sun_awt_X11SurfaceData_initOps;
Java_sun_awt_X11SurfaceData_initSurface;
Java_sun_awt_X11SurfaceData_isDgaAvailable;
Java_sun_awt_X11SurfaceData_setInvalid;
Java_sun_awt_X11SurfaceData_flushNativeSurface;
    #Java_sun_awt_motif_MEmbedCanvasPeer_initXEmbedServer;
    #Java_sun_awt_motif_MEmbedCanvasPeer_destroyXEmbedServer;
    #Java_sun_awt_motif_MEmbedCanvasPeer_isXEmbedActive;
    #Java_sun_awt_motif_MEmbedCanvasPeer_initDispatching;
    #Java_sun_awt_motif_MEmbedCanvasPeer_endDispatching;
    #Java_sun_awt_motif_MEmbedCanvasPeer_embedChild;
    #Java_sun_awt_motif_MEmbedCanvasPeer_childDestroyed;
    #Java_sun_awt_motif_MEmbedCanvasPeer_getEmbedPreferredSize;
    #Java_sun_awt_motif_MEmbedCanvasPeer_getEmbedMinimumSize;
    #Java_sun_awt_motif_MEmbedCanvasPeer_getClientBounds;
    #Java_sun_awt_motif_MEmbedCanvasPeer_notifyChildEmbedded;
    #Java_sun_awt_motif_MEmbedCanvasPeer_detachChild;
    #Java_sun_awt_motif_MEmbedCanvasPeer_forwardKeyEvent;
    #Java_sun_awt_motif_MEmbedCanvasPeer_getAWTK.KeyCodeForKeyCode;
    #Java_sun_awt_motif_MEmbedCanvasPeer_sendMessage__I;
    #Java_sun_awt_motif_MEmbedCanvasPeer_sendMessage__IJJJ;
    #Java_sun_awt_motif_MEmbedCanvasPeer_getWindow;
    #Java_sun_awt_motif_MEmbedCanvasPeer_forwardEventToEmbedded;
    #Java_sun_awt_motif_GrabbedKey_initKeySymAndModifiers;
    #Java_sun_awt_motif_MEmbeddedFramePeer_traverseOut;
awt_display;
awt_lock;
awt_Lock;
awt.Unlock;
    awt_GetDrawingSurface;
    awt_FreeDrawingSurface;
    awtGetComponent;

X11SurfaceData_GetOps;
getDefaultConfig;
    Java_sun_font_FontConfigManager_getFontConfig;
    Java_sun_font_FontConfigManager_getFontConfigAASettings;
Java_sun_awt_X11FontManager_getFontPathNative;
Java_sun_font_SunFontManager_populateFontFileNameMap;

# CDE private entry point
Java_sun_awt_motif_XsessionWMcommand;

# Java Plugin
getAwtLockFunctions;
getAwtData;
getAwtDisplay;

# libfontmanager entry points
AWTIIsHeadless;
AWTCountFonts;
    AWTLoadFont;
    AWTFreeFont;
    AWTFontMinByte1;
    AWTFontMaxByte1;
    AWTFontMinCharOrByte2;
    AWTFontMaxCharOrByte2;
    AWTFontDefaultChar;
    AWTFontPerChar;
    AWTFontMaxBounds;
    AWTFontTextExtents16;
    AWTFreeChar;
    AWTFontGenerateImage;
    AWTCharAdvance;
    AWTCharLBearing;
    AWTCharRBearing;
    AWTCharAscent;
    AWTCharDescent;
    AWTDrawGlyphList;
    AccelGlyphCache_RemoveAllCellInfos;

local:
*;
# targeted to BSD. Should not contain any rules.
#

# Warning: the following variables are overridden by Defs.gmk. Set
# values will be silently ignored:
# CFLAGS        (set $(OTHER_CFLAGS) instead)
# CPPFLAGS      (set $(OTHER_CPPFLAGS) instead)
# CXXFLAGS      (set $(OTHER_CXXFLAGS) instead)
# LDFLAGS       (set $(OTHER_LDFAGS) instead)
# LDLIBS        (set $(EXTRA_LIBS) instead)
# LDLIBS_COMMON (set $(EXTRA_LIBS) instead)

# Get shared JDK settings
include $(BUILDDIR)/common/shared/Defs.gmk

ifndef PLATFORM_SRC
    PLATFORM_SRC = $(TOPDIR)/src/solaris
endif # PLATFORM_SRC

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# or visit www.oracle.com if you need additional information or have any
# questions.
#
#
# Definitions for Bsd.
#
# Default for COMPILER_WARNINGS_FATAL on Bsd (C & C++ compiler warnings)
ifndef COMPILER_WARNINGS_FATAL
COMPILER_WARNINGS_FATAL=false
endif

# Bsd should use parallel compilation for best build times
ifndef COMPILER_WARNINGS_FATAL
COMPILER_WARNINGS_FATAL=false
endif

# Bsd should use parallel compilation for best build times
ifndef COMPILER_WARNINGS_FATAL
COMPILER_WARNINGS_FATAL=false
endif

# Indication that we are doing an incremental build.
# This may trigger the creation of make depend files.
ifndef INCREMENTAL_BUILD
INCREMENTAL_BUILD = false
endif

# FullPath just makes sure it never ends with a / and no duplicates
define FullPath
$(shell cd $1 2> $(DEV_NULL) && pwd)
endef

# OptFullPath: Absolute path name of a dir that might not initially exist.
define OptFullPath
$(shell if [ "$1" != "" -a -d "$1" ]; then (cd $1 && pwd); else echo "$1"; fi)
endef

# Location on system where jdk installs might be
USRJDKINSTANCES_PATH = $(PACKAGE_PATH)

# UNIXCOMMAND_PATH: path to where the most common Unix commands are.
# NOTE: Must end with / so that it could be empty, allowing PATH usage.
ifndef UNIXCOMMAND_PATH
UNIXCOMMAND_PATH := $(call PrefixPath,$(ALT_UNIXCOMMAND_PATH))
else
UNIXCOMMAND_PATH := $(call PrefixPath,$(ALT_UNIXCOMMAND_PATH))
endif

# USRBIN_PATH: path to where the most common Unix commands are.
# NOTE: Must end with / so that it could be empty, allowing PATH usage.
ifndef USRBIN_PATH
USRBIN_PATH := $(call PrefixPath,$(ALT_USRBIN_PATH))
else
USRBIN_PATH := $(call PrefixPath,$(ALT_USRBIN_PATH))
endif

# UNIXCCS_PATH: path to where the Solaris ported UNIX commands can be found
# NOTE: Must end with / so that it could be empty, allowing PATH usage.
ifndef UNIXCCS_PATH
UNIXCCS_PATH := $(call PrefixPath,$(ALT_UNIXCCS_PATH))
else
UNIXCCS_PATH := $(call PrefixPath,$(ALT_UNIXCCS_PATH))
endif
else
  UNIXCCS_PATH = /usr/ccs/bin/
endif

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JDK_IMPORT_PATH := $(call FullPath,$(ALT_JDK_IMPORT_PATH))
else
    JDK_IMPORT_PATH = $(BUILD_JDK_IMPORT_PATH)/$(PLATFORM)-$(ARCH)/$(JDK_IMPORT_VARIANT)
endif
JDK_IMPORT_PATH:=$(call AltCheckValue,JDK_IMPORT_PATH)
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
    "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=us-ascii" />
<title>W3C IPR SOFTWARE NOTICE</title>
<style type="text/css">
    <!--
    html, body { background: #fff; color: #000; } /* body for Windows IE3 */
    --
</style>
</head>
<body>
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 */
package java.security.acl;

/**
 * This interface represents a permission, such as that used to grant
 * a particular type of access to a resource.
 *
 * @author Satish Dharmaraj
 */
public interface Permission {

    /**
     * Returns true if the object passed matches the permission represented
     * in this interface.
     *
     * @param another the Permission object to compare with.
     *
     * @return true if the Permission objects are equal, false otherwise
     */
    public boolean equals(Object another);

    /**
     * Prints a string representation of this permission.
     *
     * @return the string representation of the permission.
     */
    public String toString();

}
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/**
 *
 */
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public interface Legal extends Remote {};

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/*

import org.somewhere.ws.EchoRequest;
import org.somewhere.ws.EchoResponse;

public class CopyingResponse extends EchoResponse {

    public CopyingResponse() {}

    public CopyingResponse(EchoRequest request) {
        content = request.getContent();
    }
}

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        Java_sun_tools_attach_BsdVirtualMachine_checkPermissions;
        Java_sun_tools_attach_BsdVirtualMachine_close;
        Java_sun_tools_attach_BsdVirtualMachine_connect;
        Java_sun_tools_attach_BsdVirtualMachine_open;
        Java_sun_tools_attach_BsdVirtualMachine_sendQuitTo;
        Java_sun_tools_attach_BsdVirtualMachine_socket;
        Java_sun_tools_attach_BsdVirtualMachine_read;
        Java_sun_tools_attach_BsdVirtualMachine_write;
        Java_sun_tools_attach_BsdVirtualMachine_createAttachFile;
    local:
        *;
};
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### 1.1172 libxmu 1.1.2-2

**1.1172.1 Available under license:**

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

---

```bash
--- libxmu-1.1.2.orig/autogen.sh
+++ libxmu-1.1.2/autogen.sh
@@ -0,0 +1,14 @@
+#! /bin/sh
+srcdir=`dirname $0`
+test -z "$srcdir" && srcdir=.
```

---

Open Source Used In HyperFlex HX Data Platform 4.5(2d) 11487
+ORIGDIR=`pwd`
+cd $srcdir
+
+autoreconf -v --install || exit 1
+cd $ORIGDIR || exit $?
+
+if test -z "$NOCONFIGURE"; then
+    $srcdir/configure "$@
+fi

--- libxmu-1.1.2.orig/debian/changelog
+++ libxmu-1.1.2/debian/changelog
@@ -0,0 +1,219 @@
+libxmu (2:1.1.2-2) unstable; urgency=medium
+
+ [ Andreas Boll ]
+ * Switch to dh with the autoreconf and quilt addons, fixing possible FTBFS
+ when building in parallel (closes: #801059). Thanks, Matthias Klose!
+
+ [ Julien Cristau ]
+ * Remove Cyril from Uploaders.
+ * Bump Standards-Version to 3.9.6, update Vcs-* control fields.
+
+ -- Julien Cristau <jcristau@debian.org>  Sat, 14 Nov 2015 10:04:44 +0100
+
+libxmu (2:1.1.2-1) unstable; urgency=low
+
+ [ Julien Cristau ]
+ * New upstream release.
+ * Add ${misc:Depends} to libxmu-headers.
+ * Use /usr/share/quilt/quilt.make instead of xsfbs for patching.
+ * Add build-{arch,indep} debian/rules targets.
+ * Bump debhelper compat level from 5 to 7.
+
+ -- Julien Cristau <jcristau@debian.org>  Mon, 05 May 2014 14:13:01 +0200
+
+libxmu (2:1.1.1-1) unstable; urgency=low
+
+ [ Julien Cristau ]
+ * New upstream release.
+ * Don't require (fake)root for debian/rules clean.
+ * Bump build-deps on xutils-dev, xmlto and xorg-sgml-doctools per
+ configure.ac.
+ * Xmu.html no longer hardcodes the full path to xlogo.svg, drop sed call
+ from debian/rules.
+ * Remove David Nusinow from Uploaders.
+ * Bump debhelper build-dep for ${misc:Pre-Depends} usage.
+
+ -- Julien Cristau <jcristau@debian.org>  Sat, 21 Apr 2012 10:50:11 +0200
+
+libxmu (2:1.1.0-3) unstable; urgency=low

---
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* Build for multiarch.

-- Steve Langasek <vorlon@debian.org>  Fri, 21 Oct 2011 14:47:59 -0700

+libxmu (2:1.1.0-2) unstable; urgency=low

+ [ Christopher James Halse Rogers ]
+ * debian/patches/01_dont_export_private_deps.patch:
+   - The Xmu.h header uses libXt symbols in a #define, so libXt is not a
+     private dep. With binutils-gold, the indirect dependency on Xt is not
+     considered when linking with Xmu so this causes build failures.
+   
+ + [ Julien Cristau ]
+ + * Drop Pre-Depends on x11-common, only needed for upgrades from the
+   monolith.
+   
+ -- Julien Cristau <jcristau@debian.org>  Thu, 28 Apr 2011 14:10:11 +0200

+libxmu (2:1.1.0-1) unstable; urgency=low

+ * New upstream release.
+ * Bump xutils-dev build-dep for new macros.
+ * Add xmlto, xorg-sgml-doctools, and w3m build-dep for the doc.
+ * Pass --with-xmlto and --without-fop (we want html and txt only).
+ * Pass --docdir=/usr/share/doc/libxmu-headers and add this directory to
+   libxmu-headers.install file.
+ * Remove the hardcoded path to the X logo in the Xmu.html file.
+ * Kill *.xml in the doc directory, no point in shipping them.
+ * Switch from --list-missing to --fail-missing for additional safety.
+   
+ -- Cyril Brulebois <kibi@debian.org>  Fri, 19 Nov 2010 08:42:29 +0100

+libxmu (2:1.0.5-2) unstable; urgency=high

+ [ Julien Cristau ]
+ * Rename the build directory to not include DEB_BUILD_GNU_TYPE for no
+   good reason. Thanks, Colin Watson!
+ * Remove myself from Uploaders
+ * Don't pass both -s and -Nfoo/-pfoo to dh_strip. This resulted in an empty
+   libxmu1-dbg (Closes: #594500). Thanks to Luca Falavigna for the report.
+   
+ + [ Cyril Brulebois ]
+ + * Add myself to Uploaders.
+ * Bump urgency to high for the RC bugfix. Thanks to Jakub Wilk as well
+   for the report.
+   
+ -- Cyril Brulebois <kibi@debian.org>  Sat, 04 Sep 2010 14:32:30 +0200
+libxmu (2:1.0.5-1) unstable; urgency=low
+
+ [ Timo Aaltonen ]
+  * New upstream release.
+  + Fix 64bit support (closes: #521887)
+
+ [ Julien Cristau ]
+  * Bump Standards-Version to 3.8.3.
+
+ -- Julien Cristau <jcristau@debian.org>  Wed, 25 Nov 2009 19:20:17 +0100
+
+libxmu (2:1.0.4-2) unstable; urgency=low
+
+ [ Julien Cristau ]
+  * Drop -1 debian revisions from build-deps.
+  + libxmu6[,-dbg], libxmu-dev, libxmuu1[,-dbg] and libxmuu-dev don't need a
+    dependency on x11-common.
+  + Build libxmu-headers in binary-indep instead of binary-arch
+    (closes: #486418). Thanks, Martin Koepp!
+  + Run autoreconf on build; build-depend on automake, libtool, xutils-dev.
+  + Handle parallel builds.
+
+ [ Brice Goglin ]
+  + Add a link to www.X.org and a reference to the upstream module
+  + in the long description.
+  + Add upstream URL to debian/copyright.
+  + Add README.source, bump Standards-Version to 3.8.2.
+  + Use updated xsfbs, closes: #538587.
+  + Move -dbg packages to section debug.
+
+ -- Julien Cristau <jcristau@debian.org>  Fri, 07 Aug 2009 14:30:36 +0200
+
+libxmu (2:1.0.4-1) unstable; urgency=low
+
+ [ Julien Cristau ]
+  * New upstream release.
+  + Make libxmu*-dev depend on libxmu-headers (= ${source:Version}). Thanks,
+    Josh Triplett.
+  + Don't export private dependencies in xmu.pc and xmuu.pc. These
+    dependencies are handled by Requires.private.
+  + Due to the above, build-depend on quilt and apply the xsfbs patch rules.
+  + Update xsfbs to the latest version as of 2008-01-06.
+  + Add myself to Uploaders, and remove Branden and Fabio with their
+    permission.
+  + Bump Standards-Version to 3.7.3 (no changes).
+  + s/^XS-Vcs/Vcs/
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+ [ Timo Aaltonen ]
+ * Bump the epoch so that this can be synced to Ubuntu in the future.
+
+ -- Julien Cristau <jcristau@debian.org>  Thu, 17 Jan 2008 14:57:47 +0100
+
+libxmu (1:1.0.3-1) unstable; urgency=low
+
+ * New upstream release.
+ * Install the upstream changelog.
+ * Remove outdated CVS information from the package descriptions, and add
  XS-Vcs-Git and XS-Vcs-Browser.
+ * Fix package sections (libraries in libs, development stuff in libdevel).
+
+ -- Julien Cristau <jcristau@debian.org>  Thu, 12 Apr 2007 13:40:07 +0200
+
+libxmu (1:1.0.2-2) unstable; urgency=low
+
+ [ Andres Salomon ]
+ * Test for obj-$[DEB_BUILD_GNU_TYPE) before creating it during build;
  idempotency fix.
+
+ [ Drew Parsons ]
+ * dbg package has priority extra.
+
+ -- David Nusinow <dnusinow@debian.org>  Wed, 30 Aug 2006 16:53:25 -0400
+
+libxmu (1:1.0.2-1) experimental; urgency=low
+
+ * New upstream release
+ * Bump debhelper compat to 5
+ * Run dh_install with --list-missing
+ * Version the -headers package's x11-common pre-dep to use version 1:7.0.0
  to match the rest of Debian and shut lintian up
+ * Bump standards version to 3.7.2.0
+
+ -- David Nusinow <dnusinow@debian.org>  Mon,  3 Jul 2006 18:43:32 -0400
+
+libxmu (1:1.0.1-3) unstable; urgency=low
+
+ * Reorder makeshlib command in rules file so that ldconfig is run
  properly. Thanks Drew Parsons and Steve Langasek.
+
+ -- David Nusinow <dnusinow@debian.org>  Tue, 18 Apr 2006 21:49:59 -0400
+
+libxmu (1:1.0.1-2) unstable; urgency=low
+
+ * Upload to unstable
Open Source Used In HyperFlex HX Data Platform 4.5(2d) 11492
+Priority: optional
+Maintainer: Debian X Strike Force <debian-x@lists.debian.org>
+Build-Depends:
  + debhelper (>= 9),
  + dh-autoreconf,
  + libxl1-dev (>= 1:0.99.2),
  + libxt-dev (>= 1:0.99.1),
  + libxext-dev (>= 1:0.99.1),
  + pkg-config,
  + quilt,
  + automake,
  + libtool,
  + xutils-dev (>= 1:7.6+2),
+## devel-docs:
  + xmlto (>= 0.0.22),
  + xorg-sgml-doctools (>= 1:1.8),
  + w3m,
+Standards-Version: 3.9.6
+Vcs-Git: git://anonscm.debian.org/git/pkg-xorg/lib/libxmu
+Vcs-Browser: https://anonscm.debian.org/cgit/pkg-xorg/lib/libxmu.git

+Package: libxmu6
+Section: libs
+Architecture: any
+Multi-Arch: same
+Pre-Depends: ${misc:Pre-Depends}
+Depends: ${shlibs:Depends}, ${misc:Depends}
+Description: X11 miscellaneous utility library
  + libXmu provides a set of miscellaneous utility convenience functions for X
  + libraries to use. libXmuu is a lighter-weight version that does not depend
  + on libXt or libXext; for more information, see libxmuu1.
  +
  + More information about X.Org can be found at:
  + <URL:http://www.X.org>
  +
  + This module can be found at
  + git://anongit.freedesktop.org/git/xorg/lib/libXmu

+Package: libxmu6-dbg
+Section: debug
+Architecture: any
+Multi-Arch: same
+Priority: extra
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxmu6 (= ${binary:Version})
+Description: X11 miscellaneous utility library (debug package)
  + libXmu provides a set of miscellaneous utility convenience functions for X
  + libraries to use. libXmuu is a lighter-weight version that does not depend
  + on libXt or libXext; for more information, see libxmuu1.
This package contains the debug versions of the library found in libxmu6. Non-developers likely have little use for this package.

More information about X.Org can be found at:
+ <URL:http://www.X.org>

This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu

Package: libxmu-dev
Section: libdevel
Architecture: any
Multi-Arch: same
Depends: ${shlibs:Depends}, ${misc:Depends}, libxext-dev, libxt-dev, libxmu6 (= ${binary:Version}), libxmu-headers (= ${source:Version})
Description: X11 miscellaneous utility library (development headers)
libXmu provides a set of miscellaneous utility convenience functions for X libraries to use. libXmumu is a lighter-weight version that does not depend on libXt or libXext; for more information, see libxmumu1.

This package contains the development headers for the library found in libxmu6. Non-developers likely have little use for this package.

More information about X.Org can be found at:
+ <URL:http://www.X.org>

This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu

Package: libxmumu1
Section: libs
Architecture: any
Multi-Arch: same
Pre-Depends: ${misc:Pre-Depends}
Depends: ${shlibs:Depends}, ${misc:Depends}
Description: X11 miscellaneous micro-utility library
libXmumu provides a set of miscellaneous utility convenience functions for X libraries to use. It is a lighter version of libXmu that does not depend on libXt or libXext; for more information on libXmu, see libxmu6.

More information about X.Org can be found at:
+ <URL:http://www.X.org>

This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu

Package: libxmumu1-dbg
+Section: debug
+Architecture: any
+Multi-Arch: same
+Priority: extra
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxmuu1 (= ${binary:Version})
+Description: X11 miscellaneous micro-utility library (debug package)
+ libXmuu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. It is a lighter version of libXmu that does not depend
+ on libXt or libXext; for more information on libXmu, see libxmu6.
+ .
+ This package contains the debug versions of the library found in libxmuu1.
+ Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmuu-dev
+Section: libdevel
+Architecture: any
+Multi-Arch: same
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxmuu1 (= ${binary:Version}), libxmu-headers (= ${source:Version})
+Description: X11 miscellaneous micro-utility library (development headers)
+ libXmuu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. It is a lighter version of libXmu that does not depend
+ on libXt or libXext; for more information on libXmu, see libxmu6.
+ .
+ This package contains the development headers for the library found in
+ libxmuu1. Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmu-headers
+Section: libdevel
+Architecture: all
+Multi-Arch: foreign
+Depends:
+ libx11-dev,
+ x11proto-core-dev,
+ ${misc:Depends},
+Description: X11 miscellaneous utility library headers
libXmu and libXmuu are miscellaneous utility libraries for X library
+ developers to abstract some common functions. This package provides the
+ headers for both libraries (as libXmuu is a subset of libXmu), and
+ is depended upon by both. For more information, please see libxmu-dev or
+ libxmuu-dev.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
--- libxmu-1.1.2.orig/debian/copyright
+++ libxmu-1.1.2/debian/copyright
@@ -0,0 +1,77 @@
This package was downloaded from
+http://xorg.freedesktop.org/releases/individual/lib/
+
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+
+---------
+
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+usr/lib/*/pkgconfig/xmu.pc
--- libxmu-1.1.2.orig/debian/libxmu-headers.install
+++ libxmu-1.1.2/debian/libxmu-headers.install
@@ -0,0 +1,2 @@
+usr/include/X11/*
+usr/share/doc/libxmu-headers
--- libxmu-1.1.2.orig/debian/libxmu6.install
+++ libxmu-1.1.2/debian/libxmu6.install
@@ -0,0 +1 @@
+usr/lib/*/libXmu.so.6*
--- libxmu-1.1.2.orig/debian/libxmuu-dev.install
+++ libxmu-1.1.2/debian/libxmuu-dev.install
@@ -0,0 +1,3 @@
+usr/lib/*/libXmuu.a
+usr/lib/*/libXmuu.so
+usr/lib/*/pkgconfig/xmuu.pc
--- libxmu-1.1.2.orig/debian/libxmuu1.install
+++ libxmu-1.1.2/debian/libxmuu1.install
@@ -0,0 +1 @@
+usr/lib/*/libXmuu.so.1*
--- libxmu-1.1.2.orig/debian/patches/01_dont_export_private_deps.diff
+++ libxmu-1.1.2/debian/patches/01_dont_export_private_deps.diff
@@ -0,0 +1,26 @@
+diff --git a/xmu.pc.in b/xmu.pc.in
index a086f83..15dabbf 100644
--- a/xmu.pc.in
++++ b/xmuu.pc.in
@ -6,7 +6,7 @@ includedir=@includedir@
+ Name: Xmu
+ Description: Xmu Library
+ Version: @PACKAGE_VERSION@
+ Requires: xproto x11 xt
++ Requires: xproto xt
+ Requires.private: x11 xt xext
+ Cflags: -I${includedir}
+ Libs: -L${libdir} -lXmu
+diff --git a/xmuu.pc.in b/xmuu.pc.in
index 1e91ac4..72fa5f9 100644
--- a/xmuu.pc.in
++++ b/xmuu.pc.in
@ -6,7 +6,7 @@ includedir=@includedir@
+ Name: Xmuu
+ Description: Mini Xmu Library
+ Version: @PACKAGE_VERSION@
+ Requires: xproto x11
++ Requires: xproto
+ Requires.private: x11
+ Cflags: -I${includedir}
1.1173 grub2 2.02~beta2-36ubuntu3.9

1.1173.1 Available under license:

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Version 3, 29 June 2007

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  * Numbers 0-9

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  * ampersand, tilde, equals, exclamation point, colon, semicolon,
  * comma, and question mark

* Special:
  * Number sign (as used in preprocessor)
  * Backslash just before newline as line continuation
* White space:
  *
  * Space, horizontal tab, vertical tab, form feed, carriage-return,
  * and line-feed.
  *
  * [GLSL Language Specification 4.30.6, section 3.1]
  *
  * In this file, we test each of these in turn as follows:
  *
  * Identifier characters: All pass through unchanged
  * Punctuation: All pass through unchanged
  * Special: Empty directive replaced with blank line
  * Line continuation merges two lines, then a blank line
  * Whitespace: 4 horizontal space characters each replaced with space
  * 2 newline characters each replaced with a newline
  *
  */

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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/serialization/ClassResolvers.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/serialization/ClassResolvers.java
jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233848/1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/MessageToByteEncoder.java
* /opt/ws_local/PERMITS_SQL/1068233848/1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/CodecException.java
* /opt/ws_local/PERMITS_SQL/1068233848/1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java

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* /opt/ws_local/PERMITS_SQL/1068233848/1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1068233848/1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/ws_local/PERMITS_SQL/1068233848/1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /opt/ws_local/PERMITS_SQL/1068233848/1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/HeadersUtils.java
* /opt/ws_local/PERMITS_SQL/1068233848/1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/ws_local/PERMITS_SQL/1068233848/1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
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  jar/io/netty/handler/codec/compression/Lz4XXHash32.java

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  jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
  jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
  jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
  jar/io/netty/handler/codec/DecoderResultProvider.java

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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/MessageAggregationException.java

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/**
* Utility class for [@link ByteBuf] that encodes and decodes to and from
* <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
  jar/io/netty/handler/codec/ValueConverter.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/CodecOutputList.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/string/LineEncoder.java

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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/xml/XmlFrameDecoder.java
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 */
/**
 * A decoder that splits the received {@link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * <p>
 * [@link LengthFieldBasedFrameDecoder] has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 *
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 *
 * The value of the length field in this example is 12 (0x0C) which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
 * combination.
 * <pre>
 * lengthFieldOffset   = 0
 * lengthFieldLength   = 2
 * lengthAdjustment    = 0
 * initialBytesToStrip = 0 (= do not strip header)
 * 
 * BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
 * +--------+----------------+      +--------+----------------+
 * | Length | Actual Content |----->| Length | Actual Content |
 * | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
 * +--------+----------------+      +--------+----------------+
 * </pre>
 */
* <h3>2 bytes length field at offset 0, strip header</h3>

* Because we can get the length of the content by calling
  * {@link ByteBuf#readableBytes()}, you might want to strip the length
  * field by specifying <tt>initialBytesToStrip</tt>. In this example, we
  * specified <tt>2</tt>, that is same with the length of the length field, to
  * strip the first two bytes.
  * <pre>
  * lengthFieldOffset   = 0
  * lengthFieldLength   = 2
  * lengthAdjustment    = 0
  * initialBytesToStrip/b> = <b>2</b> (= the length of the Length field)
  * </pre>

  * BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
  *
  * +--------+----------------+      +----------------+
  * | Length | Actual Content |----->| Actual Content |
  * | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
  * +--------+----------------+      +----------------+

  * </pre>

* <h3>2 bytes length field at offset 0, do not strip header, the length field
  * represents the length of the whole message</h3>

* In most cases, the length field represents the length of the message body
  * only, as shown in the previous examples. However, in some protocols, the
  * length field represents the length of the whole message, including the
  * message header. In such a case, we specify a non-zero
  * <tt>lengthAdjustment</tt>. Because the length value in this example message
  * is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
  * as <tt>lengthAdjustment</tt> for compensation.
  * <pre>
  * lengthFieldOffset   = 0
  * lengthFieldLength   = 2
  * lengthAdjustment    = -2
  * initialBytesToStrip = 0
  * </pre>

  * BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
  *
  * +--------+----------------+      +--------+----------------+
  * | Length | Actual Content |----->| Length | Actual Content |
  * | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
  * +--------+----------------+      +--------+----------------+

  * </pre>

* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>

* The following message is a simple variation of the first example. An extra
  * header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
  * again because the decoder always takes the length of the prepended data into
* account during frame length calculation.

* <pre>
* lengthFieldOffset = 2 (= the length of Header 1)
* lengthFieldLength = 3
* lengthAdjustment = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                        AFTER DECODE (17 bytes)
* +----------+----------+----------------+     +----------+----------+----------------+
* | Header 1 | Length  | Actual Content |----->| Header 1 | Length  | Actual Content |
* | 0xCAFE   | 0x00000C | "HELLO, WORLD"|      | 0xCAFE   | 0x00000C | "HELLO, WORLD"|
* +----------+----------+----------------+     +----------+----------+----------------+
* </pre>

* 3 bytes length field at the beginning of 5 bytes header, do not strip header

* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive lengthAdjustment so that the decoder counts the extra
* header into the frame length calculation.

* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 3
* lengthAdjustment = 2 (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                        AFTER DECODE (17 bytes)
* +----------+----------+----------------+     +----------+----------+----------------+
* | Length  | Header 1 | Actual Content |----->| Length  | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE   | "HELLO, WORLD"|      | 0x00000C | 0xCAFE   | "HELLO, WORLD"|
* +----------+----------+----------------+     +----------+----------+----------------+
* </pre>

* 2 bytes length field at offset 1 in the middle of 4 bytes header,

* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the lengthFieldOffset and the extra
* header affects the lengthAdjustment. We also specified a non-zero
* initialBytesToStrip to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify 0 for initialBytesToSkip.

* <pre>
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* lengthAdjustment = 1 (= the length of HDR2)
* initialBytesToStrip = 3 (= the length of HDR1 + LEN)
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +----------+----------+----------+----------+----------+----------+
* | HDR1 | Length | HDR2 | Actual Content |-----| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" | 0xFE | "HELLO, WORLD" |
* +----------+----------+----------+----------+----------+----------+
* </pre>

* 2 bytes length field at offset 1 in the middle of 4 bytes header,
  * strip the first header field and the length field, the length field
    * represents the length of the whole message

* Let's give another twist to the previous example. The only difference from
  * the previous example is that the length field represents the length of the
    * whole message instead of the message body, just like the third example.
  * We have to count the length of HDR1 and Length into lengthAdjustment.
  * Please note that we don't need to take the length of HDR2 into account
    * because the length field already includes the whole header length.

* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +----------+----------+----------+----------+----------+----------+
* | HDR1 | Length | HDR2 | Actual Content |-----| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" | 0xFE | "HELLO, WORLD" |
* +----------+----------+----------+----------+----------+----------+
* </pre>

* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b>

* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +----------+----------+----------+----------+----------+----------+
* | HDR1 | Length | HDR2 | Actual Content |-----| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" | 0xFE | "HELLO, WORLD" |
* +----------+----------+----------+----------+----------+----------+
* </pre>

@see LengthFieldPrepender
*/

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* Enumeration of supported Base64 dialects.
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Upstream Authors:
-----------------
Berkeley Mail was (according to def.h) developed by Kurt Shoens, dated
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the people that contributed within the around fifteen years of history
of BSD Mail. If you know more about this, contact me.

After the 4.4BSD release in 1993, Mail was not further developed
officially. The code that Heirloom mailx is based on contains
numerous patches from OpenBSD, NetBSD, RedHat and Debian. Namely
the NetBSD developer Christos Zoulas wrote much of it.

The maintainer and primary developer of Heirloom mailx is
Gunnar Ritter. Its development started under the name "nail" in February 2000 and added especially the MIME code, network protocol support, and POSIX conformance improvements. In March 2006, the program has been integrated into the Heirloom project.

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QP quoting idea, _b64_decode(), b64_encode():

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imap_gssapi.h, smtp_gssapi.h:
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.
 * (c) 2002 Sun Microsystems
 */

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==========================================================================
hmac_md5():
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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Appendix -- Sample Code

1.1183 swagger-jaxrs 1.5.10

1.1184 python 2.7.12-1ubuntu0~16.04.1
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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* /opt/cola/permits/1258121163_1643033098.79/0/portlet-form-resources-1-0-0-sources-jar/org/jasig/portlet/form/parameter/ConstrainedParameterInput.java
* /opt/cola/permits/1258121163_1643033098.79/0/portlet-form-resources-1-0-0-sources-jar/org/jasig/portlet/form/parameter/SingleTextParameterInput.java
* /opt/cola/permits/1258121163_1643033098.79/0/portlet-form-resources-1-0-0-sources-jar/org/jasig/portlet/form/parameter/Attribute.java
* /opt/cola/permits/1258121163_1643033098.79/0/portlet-form-resources-1-0-0-sources-jar/org/jasig/portlet/form/attribute/StringListAttribute.java
* /opt/cola/permits/1258121163_1643033098.79/0/portlet-form-resources-1-0-0-sources-jar/org/jasig/portlet/form/attribute/AttributeFactory.java
* /opt/cola/permits/1258121163_1643033098.79/0/portlet-form-resources-1-0-0-sources-jar/org/jasig/portlet/form/parameter/MultiChoiceParameterInput.java
* /opt/cola/permits/1258121163_1643033098.79/0/portlet-form-resources-1-0-0-sources-jar/org/jasig/portlet/form/parameter/TextBasedParameterInput.java

1.1186 jinja2 2.8-1ubuntu0.1

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1.1187 zookeeper-jute 3.6.2
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```java
options {
    STATIC=false;
}

PARSER_BEGIN(Rcc)
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 */

package org.apache.jute.compiler.generated;

import org.apache.jute.compiler.*;
import java.util.ArrayList;
import java.util.Hashtable;
```
import java.io.File;
import java.io.FileReader;
import java.io.FileNotFoundException;
import java.io.IOException;

@SuppressWarnings("unused")
public class Rcc {
    private static Hashtable<String, JRecord> recTab = new Hashtable<String, JRecord>();
    private static String curDir = System.getProperty("user.dir");
    private static String curFileName;
    private static String curModuleName;
    public static void main(String args[]) {
        String language = "java";
        ArrayList<String> recFiles = new ArrayList<String>();
        JFile curFile=null;
        for (int i=0; i<args.length; i++) {
            if ("-l".equalsIgnoreCase(args[i]) ||
                "--language".equalsIgnoreCase(args[i])) {
                language = args[i+1].toLowerCase();
                i++;
            } else {
                recFiles.add(args[i]);
            }
        }
        if (!"c++".equals(language) && !"java".equals(language) && !"c".equals(language)) {
            System.out.println("Cannot recognize language:" + language);
            System.exit(1);
        }
        if (recFiles.size() == 0) {
            System.out.println("No record files specified. Exiting.");
            System.exit(1);
        }
        for (int i=0; i<recFiles.size(); i++) {
            curFileName = recFiles.get(i);
            File file = new File(curFileName);
            try {
                curFile = parseFile(file);
            } catch (FileNotFoundException e) {
                System.out.println("File " + recFiles.get(i) + " Not found.");
                System.exit(1);
            } catch (ParseException e) {
                System.out.println(e.toString());
                System.exit(1);
            }
            System.out.println(recFiles.get(i) + " Parsed Successfully"再现了
public static JFile parseFile(File file) throws FileNotFoundException, ParseException {
    curDir = file.getParent();
    curFileName = file.getName();
    FileReader reader = new FileReader(file);
    try {
        Rcc parser = new Rcc(reader);
        recTab = new Hashtable<String, JRecord>();
        return parser.Input();
    } finally {
        try {
            reader.close();
        } catch (IOException e) {
        }
    }
}

PARSER_END(Rcc)
JFile Input() :
{
    ArrayList<JFile> ilist = new ArrayList<JFile>();
    ArrayList<JRecord> rlist = new ArrayList<JRecord>();
    JFile i;
}
ArrayList <JRecord>l;
}
{
(
i = Include()
{ ilist.add(i); }
| l = Module()
{ rlist.addAll(l); }
)+
<EOF>
{ return new JFile(curFileName, ilist, rlist); }
}
JFile Include() :
{
String fname;
Token t;
}
{
<INCLUDE_TKN>
t = <CSTRING_TKN>
{
JFile ret = null;
fname = t.image.replaceAll("^\"", "").replaceAll("\"$","");
File file = new File(curDir, fname);
String tmpDir = curDir;
String tmpFile = curFileName;
curDir = file.getParent();
curFileName = file.getName();
try {
FileReader reader = new FileReader(file);
Rcc parser = new Rcc(reader);
try {
ret = parser.Input();
System.out.println(fname + " Parsed Successfully");
} catch (ParseException e) {
System.out.println(e.toString());
System.exit(1);
}
try {
reader.close();
} catch (IOException e) {
}
} catch (FileNotFoundException e) {
System.out.println("File " + fname +
" Not found.");
System.exit(1);
}

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curDir = tmpDir;
curFileName = tmpFile;
return ret;
}
}

ArrayList<JRecord> Module() :
{
    String mName;
    ArrayList<JRecord> rlist;
}
{
    <MODULE_TKN>
    mName = ModuleName()
    { curModuleName = mName; }
    <LBRACE_TKN>
    rlist = RecordList()
    <RBRACE_TKN>
    { return rlist; }
}

String ModuleName() :
{
    String name = "";
    Token t;
    
    t = <IDENT_TKN>
    { name += t.image; }
    
    <DOT_TKN>
    t = <IDENT_TKN>
    { name += "." + t.image; }
)*
    { return name; }
}

ArrayList<JRecord> RecordList() :
{
    ArrayList<JRecord> rlist = new ArrayList<JRecord>();
    JRecord r;
    
    
    r = Record()
    { rlist.add(r); }
    
    { return rlist; }
}
JRecord Record() :
{
    String rname;
    ArrayList<JField> flist = new ArrayList<JField>();
    Token t;
    JField f;
}{'
    <RECORD_TKN>
    t = <IDENT_TKN>
    { rname = t.image; }
    <LBRACE_TKN>
    (f = Field()
    { flist.add(f); }
    <SEMICOLON_TKN>
    )+
    <RBRACE_TKN>
    
    String fqn = curModuleName + "." + rname;
    JRecord r = new JRecord(fqn, flist);
    recTab.put(fqn, r);
    return r;
}{'

JField Field() :
{
    JType jt;
    Token t;
}{'
    
    jt = Type()
    t = <IDENT_TKN>
    { return new JField(jt, t.image); }
}

JType Type() :
{
    JType jt;
    Token t;
    String rname;
}{'
    
    jt = Map()
    { return jt; }
jt = Vector()
    { return jt; }

<BYTE_TKN>
    { return new JByte(); }

<BOOLEAN_TKN>
    { return new JBoolean(); }

<INT_TKN>
    { return new JInt(); }

<LONG_TKN>
    { return new JLong(); }

<FLOAT_TKN>
    { return new JFloat(); }

<DOUBLE_TKN>
    { return new JDouble(); }

<USTRING_TKN>
    { return new JString(); }

<BUFFER_TKN>
    { return new JBuffer(); }

rname = ModuleName()
{
    if (rname.indexOf('.', 0) < 0) {
        rname = curModuleName + "." + rname;
    }
    JRecord r = recTab.get(rname);
    if (r == null) {
        System.out.println("Type " + rname + " not known. Exiting.");
        System.exit(1);
    }
    return r;
}

JMap Map():
{
    JType jt1;
    JType jt2;
}

{<MAP_TKN>
    <LT_TKN>
    jt1 = Type()
    <COMMA_TKN>
    jt2 = Type()
    <GT_TKN>
    { return new JMap(jt1, jt2); }
}

JVector Vector():

{ JType jt;
} 
{<VECTOR_TKN>
  <LT_TKN>
  jt = Type()
  <GT_TKN>
  { return new JVector(jt); } 
} 

Found in path(s):
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/jute/compiler/generated/rcc.jj
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  jar/org/apache/jute/compiler/generated/RccConstants.java
 * /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/jute/compiler/generated/Rcc.java
 * /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/jute/compiler/generated/ParseException.java
 * /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/jute/compiler/generated/TokenMgrError.java
 * /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/jute/compiler/generated/CharStream.java
 * /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/jute/compiler/generated/Token.java
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* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/zookeeper/proto/ConnectRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/zookeeper/proto/GetChildrenResponse.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/zookeeper/proto/ErrorResponse.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/zookeeper/proto/WatcherEvent.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/zookeeper/proto/GetSASLRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/zookeeper/proto/SetACLResponse.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/zookeeper/proto/SetDataRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/zookeeper/proto/GetAllChildrenNumberResponse.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/zookeeper/proto/SyncRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/zookeeper/txn/TxnHeader.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/zookeeper/proto/CreateTTLRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/zookeeper/proto/AuthPacket.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/zookeeper/proto/Create2Response.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/GetMaxChildrenRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/RemoveWatchesRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/SetWatches2.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/txn/CreateSessionTxn.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/txn/MultiTxn.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/txn/CreateSessionTxn.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/txn/MultiTxn.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/CheckVersionRequest.java

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* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/Utils.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/CSharpGenerator.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/JRecord.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/RecordReader.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/JField.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/CppGenerator.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/JCompType.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/Index.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/JInt.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/JMap.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/BinaryInputArchive.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/JFile.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/JLong.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/JDouble.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/InputArchive.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/JType.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/BinaryOutputArchive.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/jar/org/apache/jute/Record.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/jar/org/apache/jute/JavaGenerator.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/jar/org/apache/jute/ToStringOutputArchive.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/jar/org/apache/jute/OutputArchive.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/jar/org/apache/jute/JBoolean.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/jar/org/apache/jute/RecordWriter.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/jar/org/apache/jute/JFloat.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/jar/org/apache/jute/JString.java

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* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/package.html
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/package.html
1.1188 jackson-xc 2.4.5

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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.1189 file 5.25

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1.1190 harfbuzz 1.0.1-1ubuntu0.1

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1.1191 wcwidth 0.2.5

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Markus Kuhn -- 2007-05-26 (Unicode 5.0)

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 */
/**
 * A decoder that splits the received { @link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
* <p>
* [@link LengthFieldBasedFrameDecoder] has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
* 
* * <h3>2 bytes length field at offset 0, do not strip header</h3>
* 
* The value of the length field in this example is <tt>12 (0x0C)</tt> which
* represents the length of "HELLO, WORLD". By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field. Therefore, it can be decoded with the simplistic parameter
* combination.
* 
* BEFORE DECODE (14 bytes)   AFTER DECODE (14 bytes)
* +----------------+      +----------------+
* | Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |
* +----------------+      +----------------+
* </pre>
* 
* * <h3>2 bytes length field at offset 0, strip header</h3>
* 
* Because we can get the length of the content by calling
* [@link ByteBuf#readableBytes()], you might want to strip the length
* field by specifying <tt>2</tt> in <tt>initialBytesToStrip</tt>. In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* 
* BEFORE DECODE (14 bytes)   AFTER DECODE (12 bytes)
* +----------------+      +----------------+
* | Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |
* +----------------+      +----------------+
* </pre>
* 
* * <h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* $\texttt{lengthAdjustment}$<tt/>. Because the length value in this example message
* is always greater than the body length by $\texttt{2}$<tt/>, we specify $\texttt{-2}$<tt/>
* as $\texttt{lengthAdjustment}$<tt/> for compensation.

\[
\begin{align*}
\text{lengthFieldOffset} & = 0 \\
\text{lengthFieldLength} & = 2 \\
\text{lengthAdjustment} & = -2 \quad (= \text{the length of the Length field}) \\
\text{initialBytesToStrip} & = 0 \\
\end{align*}
\]

\[
\begin{array}{c|c|c}
\text{BEFORE DECODE (14 bytes)} & \text{AFTER DECODE (14 bytes)} \\
\hline
\text{Length} & \text{Actual Content} & \text{Length} & \text{Actual Content} \\
\hline
0x000E & \text{"HELLO, WORLD"} & 0x000E & \text{"HELLO, WORLD"} \\
\hline
\end{array}
\]

* $\texttt{3 bytes length field at the end of 5 bytes header, do not strip header}$
* 
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. $\texttt{lengthAdjustment}$<tt/> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.

\[
\begin{align*}
\text{lengthFieldOffset} & = 2 \quad (= \text{the length of Header 1}) \\
\text{lengthFieldLength} & = 3 \\
\text{lengthAdjustment} & = 0 \\
\text{initialBytesToStrip} & = 0 \\
\end{align*}
\]

\[
\begin{array}{c|c|c|c|c}
\text{BEFORE DECODE (17 bytes)} & \text{AFTER DECODE (17 bytes)} \\
\hline
\text{Header 1} & \text{Length} & \text{Actual Content} & \text{Length} & \text{Actual Content} \\
\hline
0xCAFE \quad 0x00000C \quad \text{"HELLO, WORLD"} & 0xCAFE \quad 0x00000C \quad \text{"HELLO, WORLD"} \\
\hline
\end{array}
\]

* $\texttt{3 bytes length field at the beginning of 5 bytes header, do not strip header}$
* 
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive $\texttt{lengthAdjustment}$<tt/> so that the decoder counts the extra
* header into the frame length calculation.

\[
\begin{align*}
\text{lengthFieldOffset} & = 0 \\
\end{align*}
\]
* lengthFieldLength = 3
* <b>lengthAdjustment</b> = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0

* BEFORE DECODE (17 bytes)                        AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------------+
* | Length  | Header 1 | Actual Content |----->| Length  | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE  | "HELLO, WORLD" |      | 0x00000C | 0xCAFE  | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
  strip the first header field and the length field</h3>
*
* This is a combination of all the examples above. There are the prepended
  header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
  header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
  * <tt>initialBytesToStrip</tt> to strip the length field and the prepended
  header from the frame. If you don't want to strip the prepended header, you
  could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
* BEFORE DECODE (16 bytes)                        AFTER DECODE (13 bytes)
* +------+---------+-+----------------+      +-------+----------------+
* | HDR1  | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA  | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+---------+-+----------------+      +-------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
  strip the first header field and the length field</h3>
*
* Let's give another twist to the previous example. The only difference from
  the previous example is that the length field represents the length of the
  whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
  because the length field already includes the whole header length.
* <pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = 3
* 
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +----------------------------------+ +----------------------------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +----------------------------------+ +----------------------------------+
* */

@see LengthFieldPrepender
*/

Found in path(s):
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/*
 * Enumeration of supported Base64 dialects.
 * 
 * The internal lookup tables in this class has been derived from
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 * Base64 Encoder/Decoder</a>.
 */

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/**
 * Utility class for {@link ByteBuf} that encodes and decodes to and from
 * <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
 * <p>
 * The encoding and decoding algorithm in this class has been derived from
 */

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* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/CodecException.java
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* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/compression/ZlibDecoder.java
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* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
  jar/io/netty/handler/codec/DatagramPacketEncoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
  jar/io/netty/handler/codec/string/LineEncoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
  jar/io/netty/handler/codec/CodecOutputList.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
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  jar/io/netty/handler/codec/HeadersUtils.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
  jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
  jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/ProtocolDetectionState.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/UnsupportedValueConverter.java
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* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/DefaultHeadersImpl.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/ValueConverter.java
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* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/EmptyHeaders.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/Headers.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/DefaultHeaders.java

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* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/META-INF/maven/io.netty/netty-codec/pom.xml

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* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
  jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
  jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
  jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
  jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
  jar/io/netty/handler/codec/compression/Crc32.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
  jar/io/netty/handler/codec/json/ObjectDecoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
  jar/io/netty/handler/codec/json/JsonObjectDecoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
  jar/io/netty/handler/codec/compression/Bzip2BlkCompressor.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
  jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
  jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
  jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
  jar/io/netty/handler/codec/compression/Bzip2Constants.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
  jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
  jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-
  jar/io/netty/handler/codec/compression/Bzip2Decoder.java
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* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/compression/Crc32c.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/compression/JdkZlibDecoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/compression/XmlFrameDecoder.java

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* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/compression/LzfEncoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/compression/Lz4Constants.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/compression/LzfDecoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/compression/Bzip2Encoder.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/compression/FastLz.java
* /opt/cola/permits/1257282550_1642795744.0/0/netty-codec-4-1-45-final-sources-jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java

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* Frodo Looijaard
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  Many optimizations in libsensors and sensors.
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* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/hash/Murmur3_128HashFunction.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/collect/Queues.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/collect/TreeRangeSet.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/collect/AbstractSortedMultiset.java

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* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/collect/RegularContiguousSet.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/collect/DescendingImmutableSortedMultiset.java

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  jar/jersey/repackaged/com/google/common/util/concurrent/TimeLimiter.java
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jar/jersey/repackaged/com/google/common/cache/CacheBuilder.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-
jar/jersey/repackaged/com/google/common/annotations/GwtCompatible.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-
jar/jersey/repackaged/com/google/common/collection/ArrayTable.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-
jar/jersey/repackaged/com/google/common/primitives/SignedBytes.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-
jar/jersey/repackaged/com/google/common/collection/AbstractIndexedListIterator.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-
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* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-
jar/jersey/repackaged/com/google/common/util/concurrent/JdkFutureAdapters.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-
jar/jersey/repackaged/com/google/common/collection/RegularImmutableSortedSet.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-
jar/jersey/repackaged/com/google/common/collection/ImmutableTable.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-
jar/jersey/repackaged/com/google/common/util/concurrent/AbstractExecutionThreadService.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-
jar/jersey/repackaged/com/google/common/reflect/TypeResolver.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-
jar/jersey/repackaged/com/google/common/collection/ImmutableSortedMapFauxverideShim.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-
jar/jersey/repackaged/com/google/common/collection/ComputationException.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-
jar/jersey/repackaged/com/google/common/escape/ArrayBasedEscaperMap.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-
jar/jersey/repackaged/com/google/common/util/concurrent/Callables.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-
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* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-
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* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-
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jar/jersey/repackaged/com/google/common/collection/EmptyImmutableSetMultimap.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-
jar/jersey/repackaged/com/google/common/escape/ArrayBasedUnicodeEscaper.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-
jar/jersey/repackaged/com/google/common/collection/SingletonImmutableTable.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-
We used the following open source libraries in our Data Platform 4.5(2d):

- ImmutableSortedSetFauxverideShim.java
- ImmutableSortedMap.java
- LineProcessor.java
- ForwardingFuture.java
- DiscreteDomain.java

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* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/primitives/Primitives.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/collection/ConcurrentHashMultiset.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/io/CharStreams.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/collection/ForwardingIterator.java
jar/jersey/repackaged/com/google/common/collect/TreeMultimap.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/io/InputSupplier.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/base/Objects.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/collect/ForwardingSortedSet.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/collect/Synchronized.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/collect/ObjectArrays.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/base/Supplier.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/base/FinalizablePhantomReference.java
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* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/base/AbstractIterator.java

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* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/util/concurrent/ForwardingCheckedFuture.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/base/Present.java
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* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/cache/AbstractLoadingCache.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/base/PairwiseEquivalence.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/reflect/TypeParameter.java
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* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/util/concurrent/ExecutionError.java
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jar/jersey/repackaged/com/google/common/base/MoreObjects.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-
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jar/jersey/repackaged/com/google/common/primitives/UnsignedInts.java
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src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java contains
test data from http://aspell.sourceforge.net/test/batch0.tab.

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1.1208 openssl 1.0.2k

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1.1209 ipmi-tool 1.8.11

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1.1210 icu 4.8.1.1-3ubuntu0.7

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## 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 $@ $<
1.1211 guava 18.0

1.1212 gir1.2-gdkpixbuf-2.0 2.10.6

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That's all there is to it!

1.1213 idna 2.5
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Metadata-Version: 1.1
Name: idna
Version: 2.5
Summary: Internationalized Domain Names in Applications (IDNA)
Home-page: https://github.com/kjd/idna
Author: Kim Davies
Author-email: kim@cynosure.com.au
License: BSD-like
Description: Internationalized Domain Names in Applications (IDNA)

Support for the Internationalised Domain Names in Applications
(IDNA) protocol as specified in `RFC 5891 <http://tools.ietf.org/html/rfc5891>`_.
This is the latest version of the protocol and is sometimes referred to as
"IDNA 2008".

This library also provides support for Unicode Technical Standard 46,
`Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_.

This acts as a suitable replacement for the “encodings.idna” module that
comes with the Python standard library, but only supports the

Basic functions are simply executed:

.. code-block:: pycon

    # Python 3
    >>> import idna
    >>> idna.encode('..')
b'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))

# Python 2
>>> import idna
>>> idna.encode(u'.')
'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))

Packages
--------

The latest tagged release version is published in the PyPI repository:

.. image:: https://badge.fury.io/py/idna.svg
   :target: http://badge.fury.io/py/idna

Installation
------------

To install this library, you can use pip:

.. code-block:: bash

    $ pip install idna

Alternatively, you can install the package using the bundled setup script:

.. code-block:: bash

    $ python setup.py install

This library works with Python 2.6 or later, and Python 3.3 or later.

Usage
-----

For typical usage, the ``encode`` and ``decode`` functions will take a domain name argument and perform a conversion to A-labels or U-labels respectively.

.. code-block:: pycon

    # Python 3
    >>> import idna
>>> idna.encode('.')
b'xn--eckwd4c7c.xn--zckzah'

>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
.

You may use the codec encoding and decoding methods using the
``idna.codec`` module:

```pycon
# Python 2
>>> import idna.codec
>>> print u'.'.encode('idna')
xn--80ahd1agd.xn--80akhbyknj4f
>>> print 'xn--80ahd1agd.xn--80akhbyknj4f'.decode('idna')
.
```

Conversions can be applied at a per-label basis using the ``ulabel`` or ``alabel``
functions if necessary:

```pycon
# Python 2
>>> idna.alabel(u'')
'xn--0zwm56d'
```

Compatibility Mapping (UTS #46)
+++++++++++++++++++++++++++++++

As described in `RFC 5895 <http://tools.ietf.org/html/rfc5895>`_, the IDNA
specification no longer normalizes input from different potential ways a user
may input a domain name. This functionality, known as a “mapping”, is now
considered by the specification to be a local user-interface issue distinct
from IDNA conversion functionality.

This library provides one such mapping, that was developed by the Unicode
Consortium. Known as `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`, it provides for both a regular mapping for typical applications, as well as
a transitional mapping to help migrate from older IDNA 2003 applications.

For example, “Königsgäßchen” is not a permissible label as *LATIN CAPITAL
LETTER K* is not allowed (nor are capital letters in general). UTS 46 will
convert this into lower case prior to applying the IDNA conversion.

```pycon
# Python 3
>>> import idna
```
>>> idna.encode(u'Königsgäßchen')
...
idna.core.InvalidCodepoint: Codepoint U+004B at position 1 of 'Königsgäßchen' not allowed
>>> idna.encode('Königsgäßchen', uts46=True)
'b'xn--knigsgchen-b4a3dun'
>>> print(idna.decode('xn--knigsgchen-b4a3dun'))
königsgäßchen

Transitional processing provides conversions to help transition from the older 2003 standard to the current standard. For example, in the original IDNA specification, the *LATIN SMALL LETTER SHARP S* (ß) was converted into two *LATIN SMALL LETTER S* (ss), whereas in the current IDNA specification this conversion is not performed.

.. code-block:: pycon

    # Python 2
    >>> idna.encode(u'Königsgäßchen', uts46=True, transitional=True)
    'xn--knigsssschen-lcb0w'

Implementors should use transitional processing with caution, only in rare cases where conversion from legacy labels to current labels must be performed (i.e. IDNA implementations that pre-date 2008). For typical applications that just need to convert labels, transitional processing is unlikely to be beneficial and could produce unexpected incompatible results.

``encodings.idna`` Compatibility

+++++++++++++++

Function calls from the Python built-in ``encodings.idna`` module are mapped to their IDNA 2008 equivalents using the ``idna.compat`` module. Simply substitute the ``import`` clause in your code to refer to the new module name.

Exceptions

---------

All errors raised during the conversion following the specification should raise an exception derived from the ``idna.IDNAError`` base class.

More specific exceptions that may be generated as ``idna.IDNABidiError`` when the error reflects an illegal combination of left-to-right and right-to-left characters in a label; ``idna.InvalidCodepoint`` when a specific codepoint is an illegal character in an IDN label (i.e. INVALID); and ``idna.InvalidCodepointContext`` when the codepoint is illegal based on its positional context (i.e. it is CONTEXTO or CONTEXTJ but the contextual requirements are not satisfied.)

Testing
The library has a test suite based on each rule of the IDNA specification, as well as tests that are provided as part of the Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`
.

The tests are run automatically on each commit at Travis CI:

.. image:: https://travis-ci.org/kjd/idna.svg?branch=master
   :target: https://travis-ci.org/kjd/idna

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/ Stable
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: System Administrators
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Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
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Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
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Classifier: Topic :: Internet :: Name Service (DNS)
Classifier: Topic :: Software Development :: Libraries :: Python Modules
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* `/opt/cola/permits/1133406498_1620110696.99/0/idna-2.5-tar-gz/idna-2.5/PKG-INFO`
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import io, sys
from setuptools import setup

version = "2.5"

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',
    'Programming Language :: Python :: 3.6',
    'Topic :: Internet :: Name Service (DNS)',
    'Topic :: Software Development :: Libraries :: Python Modules',
    'Topic :: Utilities',
],
'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

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* /opt/cola/permits/1133406498_1620110696.99/0/idna-2.5-tar-gz/idna-2.5/setup.py

1.1214 openjdk 1.8.0u292

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 888  8  888  .d8'  Y8888..8P
 888  8  8880o088P` `8888'
 888  8  888  .8PY888.
`88. .8' 888  d8' `888b
 `YbdP` o888o o888o o88888o
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david@megginson.com
2000-01-14

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1.1216 python 2.7.11-1

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This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

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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
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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1.1217 ustr 1.0.4-5

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52. [56] Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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58. [62] Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
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1.1225 x11-utils 7.7+3

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Client application for querying drivers' configuration information
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1.1228 curl 7.47.0

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

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This is syslog-ng, written and maintained by <bazsi@balabit.hu>
on Sat, 03 Mar 2007 16:07:59 +0100

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1.1232 libdbi 0.9.0 4

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

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

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

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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

------

Oracle OpenJDK

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* java.sun.security.ssl

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

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OW2

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

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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

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

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Name                                     Date added

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1.1240 icu 67

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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): $(srddir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srddir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.$(STATIC_O): $(srddir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srddir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srddir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$\$(GEN_DEPS.c) $< \\
| sed \"s/(\$\*)\.o[ :]*\$@ : /g\" > $@; \\
[ -s $@ ]|| rm -f $@"
%.d: $(srddir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$\$(GEN_DEPS.cc) $< \\
| sed \"s/(\$\*)\.o[ :]*\$@ : /g\" > $@; \\
[ -s $@ ]|| rm -f $@"

## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s $< $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s $< $<

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

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

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

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1.1241 pyvim 3.0.2
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Metadata-Version: 1.0
Name: pyvim
Version: 3.0.2
Summary: Pure Python Vi Implementation
Home-page: https://github.com/jonathanslenders/pyvim
Author: Jonathan Slenders
Author-email: UNKNOWN
License: LICENSE
Description: pyvim
=====

*An implementation of Vim in Python*

::

   pip install pyvim

.. image :: https://github.com/jonathanslenders/pyvim/raw/master/docs/images/welcome-screen.png

Issues, questions, wishes, comments, feedback, remarks? Please create a GitHub
issue, I appreciate it.

[Build Status]
Installation
------------

Simply install `pyvim` using pip:

::

    pip install pyvim

It is a good idea to add the following to your `~/.bashrc` if you really want to use it:

::

    alias vi=pyvim
    export EDITOR=pyvim

The good things
----------------

The editor is written completely in Python. (There are no C extensions). This makes development a lot faster. It's easy to prototype and integrate new features.

We have already many nice things, for instance:

- Syntax highlighting of files, using the Pygments lexers.

- Horizontal and vertical splits, as well as tab pages. (Similar to Vim.)

- All of the functionality of `prompt_toolkit`
  <http://github.com/jonathanslenders/python-prompt-toolkit> . This includes a lot of Vi key bindings, it's platform independent and runs on every Python version from python 2.6 up to 3.4. It also runs on Pypy with a noticable performance boost.

- Several `:set ...` commands have been implemented, like `incsearch`, `number`, `ignorecase`, `wildmenu`, `expandtab`, `hlsearch`, `ruler`, `paste` and `tabstop`.

- Other working commands: `vsplit`, `tabnew`, `only`, `badd`, and many others.

- For Python source code, auto completion uses the amazing Jedi library, and
code checking in done (asynchronously) through Pyflakes.

- Colorschemes can be changed at runtime.

Further, when the project develops, it should also become possible to write extensions in Python, and use Python as a scripting language. (Instead of vimscript, for instance.)

We can also do some cool stuff. Like for instance running the editor on the Python asyncio event loop and having other coroutines interact with the editor.

Some more screenshots
----------------------

Editing its own source code:

.. image :: https://github.com/jonathanslenders/pyvim/raw/master/docs/images/editing-pyvim-source.png

Window layouts (horizontal and vertical splits + tab pages.)

.. image :: https://github.com/jonathanslenders/pyvim/raw/master/docs/images/window-layout.png

Pyflakes for Python code checking and Jedi for autocompletion:

.. image :: https://github.com/jonathanslenders/pyvim/raw/master/docs/images/pyflakes-and-jedi.png

Other colorschemes:

.. image :: https://github.com/jonathanslenders/pyvim/raw/master/docs/images/colorschemes.png

Chinese and Japanese input (double width characters):

.. image :: https://raw.githubusercontent.com/jonathanslenders/pyvim/master/docs/images/cjk.png?v2

Configuring pyvim
-----------------

It is possible to create a `.`pyvimrc` file for a custom configuration.
Have a look at this example: `pyvimrc
<https://github.com/jonathanslenders/pyvim/blob/master/examples/config/pyvimrc>`_

Limitations
----------

Compared to Vi Improved, Pyvim is still less powerful in many aspects.
- `prompt_toolkit` does not (or not yet) allow buffers to have an individual cursor when buffers are opened in several windows. Currently, this results in some unexpected behaviour, when a file is displayed in two windows at the same time. (The cursor could be displayed in the wrong window and other windows will sometimes scroll along when the cursor moves.) This has to be fixed in the future.

- The data structure for a buffer is extremely simple. (Right now, it's just a Python string, and an integer for the cursor position.) This works extremely well for development and quickly prototyping of new features, but it comes with a performance penalty. Depending on the system, when a file has above a thousand lines and syntax highlighting is enabled, editing will become noticeable slower. (The bottleneck is probably the `BufferControl` code, which on every key press tries to reflow the text and calls pygments for highlighting. And this is Python code looping through single characters.)

- A lot of nice Vim features, like line folding, macros, etcetera are not yet implemented.

- Windows support is not that nice. It works, but could be improved. (I think most Windows users are not that interested in this project, but prove me wrong.)

Roadmap
-------

There is no roadmap. I mostly implement the stuff which I need or interests me, or which gives me the opportunity to learn. But feel free to create a GitHub issue to request a new feature. Pull requests are also welcome. (Maybe create an issue first to discuss it, if you're unsure whether I'll merge it.)

Maybe some day we will have a better data structure (Rope), that makes it possible to open really large files. (With good algorithms, Python does not have to be slower than C code.)

Maybe we will also have line folding and probably block editing. Maybe some day we will have a built-in Python debugger or mouse support. We'll see. :)

Testing
-------

To run all tests, install pytest:

    pip install pytest

And then run from root pyvim directory:

    py.test
To test pyvim against all supported python versions, install tox:

    pip install tox

And then run from root pyvim directory:

    tox

You need to have installed all the supported versions of python in order to run tox command successfully.

Why did I create Pyvim?
-----------------------
There are several reasons.

The main reason is maybe because it was a small step after I created the Python `prompt-toolkit` library. That is a library which is actually only a simply pure Python readline replacement, but with some nice additions like syntax highlighting and multiline editing. It was never intended to be a toolkit for full-screen terminal applications, but at some point I realised that everything we need for an editor was in there and I liked to challenge its design. So, I started an editor and the first proof of concept was literally just a few hundred lines of code, but it was already a working editor.

The creation of `pyvim` will make sure that we have a solid architecture for `prompt-toolkit`, but it also aims to demonstrate the flexibility of the library. When it makes sense, features of `pyvim` will move back to `prompt-toolkit`, which in turn also results in a better Python REPL. (see `ptpython <https://github.com/jonathanslenders/ptpython>`_, an alternative REPL.)

Above all, it is really fun to create an editor.

Alternatives
------------
Certainly have a look at the alternatives:

- Kaa: https://github.com/kaedit/kaa by @atsuoishimoto
- Vai: https://github.com/stefanoborini/vai by @stefanoborini
- Vis: https://github.com/martanne/vis by @martanne

Q & A:
Q
Do you use curses?
A
No, it uses only `prompt-toolkit`.

Thanks

- To Vi Improved, by Bram Moolenaar. For the inspiration.
- To Jedi, pyflakes and the docopt Python libraries.
- To the Python wcwidth port of Jeff Quast for support of double width characters.
- To Guido van Rossum, for creating Python.

.. |Build Status| image:: https://api.travis-ci.org/jonathanslenders/pyvim.svg?branch=master
   :target: https://travis-ci.org/jonathanslenders/pyvim#

Platform: UNKNOWN

Found in path(s):
* /opt/cola/permits/1156368150_1619186015.98/0/pyvim-3-0-2-1-tar-gz/pyvim-3.0.2/pyvim.egg-info/PKG-INFO
* /opt/cola/permits/1156368150_1619186015.98/0/pyvim-3-0-2-1-tar-gz/pyvim-3.0.2/PKG-INFO

1.1242 grizzly-http-servlet 2.3.23

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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
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lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.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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<p>The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
<tt class="docutils literal"><span class="pre">src/lib/gssapi</span></tt>, including the following files:</p>
<div class="highlight-python">
<pre><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">generic</span><span class="o">/</span><span class="n">gssapi_err_generic</span><span class="o">.</span><span class="n">et</span>
</pre></div>
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```c
lib/gssapi/class/mechglue/g_dup_name.c
lib/gssapi/class/mechglue/g_exp_sec_context.c
lib/gssapi/class/mechglue/g_export_name.c
lib/gssapi/class/mechglue/g_glue.c
lib/gssapi/class/mechglue/g_imp_name.c
lib/gssapi/class/mechglue/g_imp_sec_context.c
lib/gssapi/class/mechglue/g_init_sec_context.c
lib/gssapi/class/mechglue/g_initialize.c
lib/gssapi/class/mechglue/g_inquire_context.c
lib/gssapi/class/mechglue/g_inquire_cred.c
lib/gssapi/class/mechglue/g_inquire_names.c
lib/gssapi/class/mechglue/g_process_context.c
lib/gssapi/class/mechglue/g_rel_buffer.c
lib/gssapi/class/mechglue/g_rel_cred.c
lib/gssapi/class/mechglue/g_rel_name.c
lib/gssapi/class/mechglue/g_rel_oid_set.c
```
and the initial implementation of incremental propagation, including the following new or changed files:

```c
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
```
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```python
import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
```
return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
            break
        # DB2 licenses start with '/*- ' and we don't want to change them.
        if line != '' and line != '-
            text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'/ *([^\s]*)( - .*)? */', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'\s*/\*\s*\*/', '', line)
            line = line.strip()
        if not in_comment and '/*' in line:
            (line, sep, comment_part) = line.partition('/*')
            comment = [comment_part.strip()]
comment_starts_at = ln
in_comment = True
elif in_comment and "*/" not in line:
    comment.append(line.lstrip("*").lstrip())
elif in_comment:
    (comment_part, sep, line) = line.partition("*/")
    comment.append(comment_part.strip())
is_license = check_comment(comment, fname, comment_starts_at,
    code_seen, nonlicense_seen)
    nonlicense_seen = nonlicense_seen or not is_license
    in_comment = False
elif line.strip() != ":
    code_seen = True

ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)
.. _mitK5license:

MIT Kerberos License information
================================

.. toctree::
   :hidden:

   copyright.rst

.. include:: notice.rst

/* -*-mode: c; c-basic-offset: 4; indent-tabs-mode: nil -* */
/*

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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
and the initial implementation of incremental propagation, including the following new or changed files:

```
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c
```

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1.1251 jackson-jaxrs 1.9.2

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* /opt/cola/permits/1144928803_1620110727.03/0/spring-security-jwt-1-0-0-release-sources-1-jar/org/springframework/security/jwt/codec/Base64Codec.java
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* /opt/cola/permits/1144928803_1620110727.03/0/spring-security-jwt-1-0-0-release-sources-1-jar/org/springframework/security/jwt/JwtAlgorithms.java
1.1253 e2fsprogs 1.42.13-1ubuntu1

1.1253.1 Available under license:

This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

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

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*/

Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
*/
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
- 
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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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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This package was put together by Yann Dirson <dirson@debian.org>,
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Theodore Ts'o
23-June-2007

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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!
#
# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

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

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

image::$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(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 is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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Gadi Oxman, August 1995

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1.1254 consolekit 0.4.6-5
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1.1258 certifi 2020.12.5

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ca-bundle.crt -- Bundle of CA Root Certificates

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

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@(#) SRCSfile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
1.1259 checker-qual 2.10.0

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1.1260 lftp 4.6.3a 1ubuntu0.1

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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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Version 3, 29 June 2007

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1.1264 twisted 16.0.0 1
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010
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abstract: 'Build and install Perl modules'
author:  
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the
Module-Build mailing list at <module-build@perl.org>.
"
build_requires:  
File::Temp: 0.15  
Test::Harness: 3.16  
Test::More: 0.49  
generated_by: 'Module::Build version 0.3608'
license: gpl
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Version 1, February 1989

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

That's all there is to it!

#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use TestInit;
use strict;
use Config;
BEGIN { require 'test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );

my ($opt) = @ARGV;
my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
  my $current_year = (gmtime)[5] + 1900;
  is $v_year, $current_year, 'perl -v copyright includes current year';
  is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
  is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!";

  # The copyright message is the first paragraph:
  local $/ = "
  my $copyright_msg = <$readme>;

  my ($year) = $copyright_msg =~ /=([^\d\.]*)/s
    or die "Year not found in README copyright message '$copyright_msg'";

  $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i

or die "Copyright statement not found in perl -v output 'output";

$year;
}

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1.1267 jnr-constants 0.8.6_hx

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Found in path(s):
* /opt/cola/permits/1258120995_1643033096.76/0/jnr-constants-0-8-6-tar/main/java/jnr/constants/Platform.java
* /opt/cola/permits/1258120995_1643033096.76/0/jnr-constants-0-8-6-tar/main/java/com/kenai/constantine/platform/ConstantResolver.java
* /opt/cola/permits/1258120995_1643033096.76/0/jnr-constants-0-8-6-tar/main/java/com/kenai/constantine/ConstantSet.java
* /opt/cola/permits/1258120995_1643033096.76/0/jnr-constants-0-8-6-tar/main/java/jnr/constants/platform/ConstantResolver.java
* /opt/cola/permits/1258120995_1643033096.76/0/jnr-constants-0-8-6-tar/main/java/jnr/constants/ConstantSet.java
* /opt/cola/permits/1258120995_1643033096.76/0/jnr-constants-0-8-6-tar/main/java/jnr/constants/platform/ConstantResolver.java
* /opt/cola/permits/1258120995_1643033096.76/0/jnr-constants-0-8-6-tar/main/java/jnr/constants/ConstantSet.java
* /opt/cola/permits/1258120995_1643033096.76/0/jnr-constants-0-8-6-tar/main/java/jnr/constants/platform/ConstantResolver.java
* /opt/cola/permits/1258120995_1643033096.76/0/jnr-constants-0-8-6-tar/main/java/jnr/constants/ConstantSet.java
* /opt/cola/permits/1258120995_1643033096.76/0/jnr-constants-0-8-6-tar/main/java/jnr/constants/platform/ConstantResolver.java
* /opt/cola/permits/1258120995_1643033096.76/0/jnr-constants-0-8-6-tar/main/java/jnr/constants/ConstantSet.java
* /opt/cola/permits/1258120995_1643033096.76/0/jnr-constants-0-8-6-tar/main/java/jnr/constants/platform/ConstantResolver.java
* /opt/cola/permits/1258120995_1643033096.76/0/jnr-constants-0-8-6-tar/main/java/jnr/constants/ConstantSet.java
* /opt/cola/permits/1258120995_1643033096.76/0/jnr-constants-0-8-6-tar/main/java/jnr/constants/platform/ConstantResolver.java
* /opt/cola/permits/1258120995_1643033096.76/0/jnr-constants-0-8-6-tar/main/java/jnr/constants/ConstantSet.java
* /opt/cola/permits/1258120995_1643033096.76/0/jnr-constants-0-8-6-tar/main/java/jnr/constants/platform/ConstantResolver.java
* /opt/cola/permits/1258120995_1643033096.76/0/jnr-constants-0-8-6-tar/main/java/jnr/constants/ConstantSet.java
* /opt/cola/permits/1258120995_1643033096.76/0/jnr-constants-0-8-6-tar/main/java/jnr/constants/platform/ConstantResolver.java
* /opt/cola/permits/1258120995_1643033096.76/0/jnr-constants-0-8-6-tar/main/java/jnr/constants/ConstantSet.java
* /opt/cola/permits/1258120995_1643033096.76/0/jnr-constants-0-8-6-tar/main/java/jnr/constants/platform/ ConstantResolver.java
1.1268 netaddr 0.8.0

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1.1269 expat 1.95.8

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1.1270 pyyaml 3.11 3build1

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1.1271 paramiko 2.6.0

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* /opt/cola/permits/1127084417_1611785502.92/0/kjd-idna-v2-0-0-gbb6e94c-1-tar-gz/kjd-idna-1cdd421/LICENSE.rst
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A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

```python
import sys
from setuptools import setup
import io
version = "2.0"

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',
            '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/cola/permits/1127084417_1611785502.92/0/kjd-idna-v2-0-0-gbb6e94c-1-tar-gz/kjd-idna-1cdd421/setup.py

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* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/annotation/EnumMemberValue.java
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* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/stackmap/MapMaker.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/CtNewNestedClass.java
1.1278 cron 3.0pl1 128ubuntu2

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Requests includes some vendorized python libraries to ease installation.

**Urllib3 License**

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1.1280 libjpeg 6b

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1.1280.2 Available under license :
The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

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

This distribution contains the sixth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION ROADMAP
=======================

This file contains the following sections:

OVERVIEW   General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES  Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO        Plans for future IJG releases.
Other documentation files in the distribution are:

User documentation:
install.doc       How to configure and install the IJG software.
usage.doc         Usage instructions for cjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpgcom.
*.1                Unix-style man pages for programs (same info as usage.doc).
wizard.doc        Advanced usage instructions for JPEG wizards only.
change.log        Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc       How to use the JPEG library in your own programs.
example.c         Sample code for calling the JPEG library.
structure.doc     Overview of the JPEG library's internal structure.
filelist.doc      Road map of IJG files.
coderules.doc     Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information
can also be found in the JPEG FAQ (Frequently Asked Questions) article. See
ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or
more of the REFERENCES, then looking at the documentation files (in roughly
the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and
decompression. JPEG (pronounced "jay-peg") is a standardized compression
method for full-color and gray-scale images. JPEG is intended for compressing
"real-world" scenes; line drawings, cartoons and other non-realistic images
are not its strong suit. JPEG is lossy, meaning that the output image is not
effectively 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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These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

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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.

We are required to state that
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REFERENCES
============

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 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 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

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

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 PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.
Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

====
The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

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**1.1281 gtk 2.24.30-1ubuntu1**

**1.1281.1 Available under license:**

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

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

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

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

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

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

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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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1.1282 libxshmfence 1.2 1

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1.1287 cxf-rt-frontend-simple 3.1.10

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1.1288 vixie-cron 3.0pl1-128ubuntu2

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$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $

Read the comments at the top of the Makefile, then edit the area marked 'configurable stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since both the daemon and the `crontab' program will do this the first time they run if they don't exist. You do need to have a /var, though -- just "mkdir /var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var" if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for `man' and you probably do not. Therefore you may have to put the man pages into /usr/man/manl, which will be hard since there will be name collisions. (Note that the man command was originally written by Bill Joy before he left Berkeley, and it contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)
LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL
to be /usr/bin/sendmail even though sendmail is installed in /usr/lib.
you should check this out.

say:
make all

su and say:
make install

Note that if I can get you to "su and say" something just by asking, you have
a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file
for help on this.

Use the `crontab' command to install all the little pieces you just created.
Some examples (see below before trying any of these!)

crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src

Notes on above examples: (1) the .src files are copied at the time the
command is issued; changing the source files later will have no effect until
they are reinstalled with another `crontab -r' command. (2) The crontab
command will affect the crontab of the person using the command unless `-u
USER' is given; `-u' only works for root. When using most `su' commands
under most BSD's, `crontab' will still think of you as yourself even though
you may think of yourself as root -- so use `-u' liberally. (3) the `-r'
option stands for `replace'; check the man page for crontab(1) for other
possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up
/etc/cron. Comment it out and add a line to start the new cron daemon
-- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron
(or whatever); no `&' is needed since the daemon forks itself and the
process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX,
you will need the public-domain "libndir", found in the B News source and in
any comp.sources.unix archive. You will also need to hack the code some.

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@(#)bitstring.3 5.1 (Berkeley) 12/13/89

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* /opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/bitstring.3

1.1289 libtiff 4.0.6 1ubuntu0.7

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1.1290 util-linux 2.27.1-6ubuntu3.2

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#1: 32 7648 0x83
#2:  7680  8704 0xa5
#5:  7936  4864 0x7 (freebsd)
#6: 12544  3584 0x7 (freebsd)
# 1:  32-  7679 ( 7648 sectors, 3 MB)
# 2:  7680-16383 ( 8704 sectors, 4 MB)
# 5:  7936-12799 ( 4864 sectors, 2 MB)
# 6: 12544-16127 ( 3584 sectors, 1 MB)

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Initialize empty image
f1c9645dbc14efddc7d8a3226785f26eb bsd.png
Create new DOS partition table
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device  Boot  Start  End Sectors Size Id Type
<removed>1  2048  4095  2048  1M 83 Linux

Create 2nd primary partition
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device  Boot  Start  End Sectors Size Id Type
<removed>1  2048  4095  2048  1M 83 Linux
<removed>2  4096 20479 16384  8M a5 FreeBSD

Create default BSD
2e1cee529cb59e9341afe0443f196a1 bsd.img
Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd

Slice Start   End Sectors  Size Type     Fsize Bsize Cpg
c      4096 20479   16384    8M unused       0     0   0
d         0 16064   16065  7.9M unused       0     0   0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

--------------------
b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------

Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd

Slice Start   End Sectors  Size Type     Fsize Bsize Cpg
a 4096 6144   2049  1M 4.2BSD       0     0   0
c 4096 20479   16384  8M unused       0     0   0
d 0 16064  16065  7.9M unused       0     0   0
Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):
-------------------
Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help):
0  unused           5  4.1BSD           9  4.4LFS           d  boot
1  swap             6  Eighth Edition a  unknown          e  ADOS
2  Version 6        7  4.2BSD           b  HPFS             f  HFS
3  Version 7        8  MS-DOS           c  ISO-9660        10  AdvFS
4  System V

Command (m for help):
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size: 4456448, sector size: 512, PT: bsd, offset: 512
---
#1: 7936 4864 0x7
#2: 12544 3584 0x7

**1.1291 jetty 6.1.22**

**1.1292 libxau 1.0.8 1**

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* /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/JSONObject.java
* /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/JSONArray.java

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  * /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/zip/Huff.java
  * /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/zip/Keep.java
  * /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/zip/Compressor.java
  * /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/zip/MapKeep.java
  * /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/zip/TrieKeep.java
  * /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/zip/PostMortem.java
  * /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/zip/BitInputStream.java
  * /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/Kim.java
  * /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/zip/JSONzip.java

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1.1295 go-jmespath

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1.1296 scala-reflect 2.12.8

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/*** The entry point into Scala runtime reflection.
 *
 * To use Scala runtime reflection, simply use or import `scala.reflect.runtime.universe._`
 *
 * See [[scala.reflect.api.Universe]] or the
 * for more details.
 */

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* /opt/cola/permits/1136635797_1613819028.17/0/scala-reflect-2-12-8-sources-2-jar/scala/reflect/internal/InfoTransformers.scala
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* /opt/cola/permits/1136635797_1613819028.17/0/scala-reflect-2-12-8-sources-2-jar/scala/reflect/runtime/SynchronizedOps.scala
* /opt/cola/permits/1136635797_1613819028.17/0/scala-reflect-2-12-8-sources-2-jar/scala/reflect/runtime/SymbolTable.scala
* /opt/cola/permits/1136635797_1613819028.17/0/scala-reflect-2-12-8-sources-2-jar/scala/reflect/io/FileOperationException.scala
* /opt/cola/permits/1136635797_1613819028.17/0/scala-reflect-2-12-8-sources-2-jar/scala/reflect/internal/util/ScalaClassLoader.scala
* /opt/cola/permits/1136635797_1613819028.17/0/scala-reflect-2-12-8-sources-2-jar/scala/reflect/macros/Infrastructure.scala
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* /opt/cola/permits/1136635797_1613819028.17/0/scala-reflect-2-12-8-sources-2-jar/scala/reflect/internal/FreshNames.scala
* /opt/cola/permits/1136635797_1613819028.17/0/scala-reflect-2-12-8-sources-2-jar/scala/reflect/internal/StringOps.scala
* /opt/cola/permits/1136635797_1613819028.17/0/scala-reflect-2-12-8-sources-2-
jar/scala/reflect/internal/FlagSets.scala
* /opt/cola/permits/1136635797_1613819028.17/0/scala-reflect-2-12-8-sources-2-jar/scala/reflect/internal/Variance.scala
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* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/internal/SqlDateTypeAdapter.java
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* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/stream/JsonReader.java
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* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/annotations/Since.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/JsonSerializationContext.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/JsonElement.java
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* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/JsonDeserializationContext.java
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* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources.jar/com/google/gson/TypeAdapterFactory.java
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 KE

update-ca-trust(8)

 ------------------
 :doctype: manpage
 :man source: update-ca-trust

NAME

----
update-ca-trust - manage consolidated and dynamic configuration of CA
certificates and associated trust

SYNOPSIS

-------
*update-ca-trust* ['COMMAND']

DESCRIPTION

------
update-ca-trust(8) is used to manage a consolidated and dynamic configuration
feature of Certificate Authority (CA) certificates and associated trust.

The feature is available for new applications that read the
consolidated configuration files found in the /etc/pki/ca-trust/extracted directory
or that load the PKCS#11 module p11-kit-trust.so
Parts of the new feature are also provided in a way to make it useful for legacy applications.

Many legacy applications expect CA certificates and trust configuration in a fixed location, contained in files with particular path and name, or by referring to a classic PKCS#11 trust module provided by the NSS cryptographic library.

The dynamic configuration feature provides functionally compatible replacements for classic configuration files and for the classic NSS trust module named libnssckbi.

In order to enable legacy applications, that read the classic files or access the classic module, to make use of the new consolidated and dynamic configuration feature, the classic filenames have been changed to symbolic links. The symbolic links refer to dynamically created and consolidated output stored below the /etc/pki/ca-trust/extracted directory hierarchy.

The output is produced using the 'update-ca-trust' command (without parameters), or using the 'update-ca-trust extract' command. In order to produce the output, a flexible set of source configuration is read, as described in section <<sourceconf,SOURCE CONFIGURATION>>.

In addition, the classic PKCS#11 module is replaced with a new PKCS#11 module (p11-kit-trust.so) that dynamically reads the same source configuration.

[[sourceconf]]
SOURCE CONFIGURATION
---------------------

The dynamic configuration feature uses several source directories that will be scanned for any number of source files. *It is important to select the correct subdirectory for adding files, as the subdirectory defines how contained certificates will be trusted or distrusted, and which file formats are read.*

Files in *subdirectories below the directory hierarchy /usr/share/pki/ca-trust-source/* contain CA certificates and trust settings in the PEM file format. The trust settings found here will be interpreted with a *low priority*.

Files in *subdirectories below the directory hierarchy /etc/pki/ca-trust/source/* contain CA certificates and trust settings in the PEM file format. The trust settings found here will be interpreted with a *high priority*.

.You may use the following rules of thumb to decide, whether your configuration files should be added to the /etc or rather to the /usr directory hierarchy:
* If you are manually adding a configuration file to a system, you probably want it to override any other default configuration, and you most likely should
add it to the respective subdirectory in the /etc hierarchy.
* If you are creating a package that provides additional root CA certificates, that is intended for distribution to several computer systems, but you still want to allow the administrator to override your list, then your package should add your files to the respective subdirectory in the /usr hierarchy.
* If you are creating a package that is supposed to override the default system trust settings, that is intended for distribution to several computer systems, then your package should install the files to the respective subdirectory in the /etc hierarchy.

.*QUICK HELP 1*: To add a certificate in the simple PEM or DER file formats to the list of CAs trusted on the system:
* add it as a new file to directory /etc/pki/ca-trust/source/anchors/
* run 'update-ca-trust extract'

.*QUICK HELP 2*: If your certificate is in the extended BEGIN TRUSTED file format (which may contain distrust/blacklist trust flags, or trust flags for usages other than TLS) then:
* add it as a new file to directory /etc/pki/ca-trust/source/
* run 'update-ca-trust extract'

.In order to offer simplicity and flexibility, the way certificate files are treated depends on the subdirectory they are installed to.
* simple trust anchors subdirectory: /usr/share/pki/ca-trust-source/anchors/ or /etc/pki/ca-trust/source/anchors/
* simple blacklist (distrust) subdirectory: /usr/share/pki/ca-trust-source/blacklist/ or /etc/pki/ca-trust/source/blacklist/
* extended format directory: /usr/share/pki/ca-trust-source/ or /etc/pki/ca-trust/source/

.In the main directories /usr/share/pki/ca-trust-source/ or /etc/pki/ca-trust/source/ you may install one or multiple files in the following file formats:
* certificate files that include trust flags, in the BEGIN/END TRUSTED CERTIFICATE file format (any file name), which have been created using the openssl x509 tool and the -addreject -addtrust options.
  Bundle files with multiple certificates are supported.
* files in the p11-kit file format using the .p11-kit file name extension, which can (e.g.) be used to distrust certificates based on serial number and issuer name, without having the full certificate available.
  (This is currently an undocumented format, to be extended later.
  For examples of the supported formats, see the files shipped with the ca-certificates package.)
* certificate files without trust flags in either the DER file format or in the PEM (BEGIN/END CERTIFICATE) file format (any file name). Such files will be added with neutral trust, neither trusted nor distrusted.
  They will simply be known to the system, which might be helpful to assist cryptographic software in constructing chains of certificates.
  (If you want a CA certificate in these file formats to be trusted, you should remove it from this directory and move it to the /anchors subdirectory instead.)
In the anchors subdirectories /usr/share/pki/ca-trust-source/anchors/ or /etc/pki/ca-trust/source/anchors/
you may install one or multiple certificates in either the DER file
format or in the PEM (BEGIN/END CERTIFICATE) file format.
Each certificate will be treated as *trusted* for all purposes.

In the blacklist subdirectories /usr/share/pki/ca-trust-source/blacklist/ or /etc/pki/ca-trust/source/blacklist/
you may install one or multiple certificates in either the DER file
format or in the PEM (BEGIN/END CERTIFICATE) file format.
Each certificate will be treated as *distrusted* for all purposes.

Please refer to the x509(1) manual page for the documentation of the
BEGIN/END CERTIFICATE and BEGIN/END TRUSTED CERTIFICATE file formats.

Applications that rely on a static file for a list of trusted CAs
may load one of the files found in the /etc/pki/ca-trust/extracted
directory. After modifying any file in the
/usr/share/pki/ca-trust-source/ or /etc/pki/ca-trust/source/
directories or in any of their subdirectories, or after adding a file,
it is necessary to run the 'update-ca-trust extract' command,
in order to update the consolidated files in /etc/pki/ca-trust/extracted/.

Applications that load the classic PKCS#11 module using filename libnssckbi.so
(which has been converted into a symbolic link pointing to the new module)
and any application capable of
loading PKCS#11 modules and loading p11-kit-trust.so, will benefit from
the dynamically merged set of certificates and trust information stored in the
/usr/share/pki/ca-trust-source/ and /etc/pki/ca-trust/source/ directories.

[[extractconf]]
EXTRACTED CONFIGURATION
-------------------------
The directory /etc/pki/ca-trust/extracted/ contains generated CA certificate
bundle files which are created and updated, based on the <<sourceconf,SOURCE CONFIGURATION>>
by running the 'update-ca-trust extract' command.

If your application isn't able to load the PKCS#11 module p11-kit-trust.so,
then you can use these files in your application to load a list of global
root CA certificates.

Please never manually edit the files stored in this directory,
because your changes will be lost and the files automatically overwritten,
each time the 'update-ca-trust extract' command gets executed.

In order to install new trusted or distrusted certificates,
please rather install them in the respective subdirectory below the
/usr/share/pki/ca-trust-source/ or /etc/pki/ca-trust/source/
directories, as described in the `<<sourceconf,SOURCE CONFIGURATION>>` section.

The directory `/etc/pki/ca-trust/extracted/java/` contains a CA certificate bundle in the java keystore file format. Distrust information cannot be represented in this file format, and distrusted certificates are missing from these files. File `cacerts` contains CA certificates trusted for TLS server authentication.

The directory `/etc/pki/ca-trust/extracted/openssl/` contains CA certificate bundle files in the extended BEGIN/END TRUSTED CERTIFICATE file format, as described in the `x509(1)` manual page. File `ca-bundle.trust.crt` contains the full set of all trusted or distrusted certificates, including the associated trust flags.

The directory `/etc/pki/ca-trust/extracted/pem/` contains CA certificate bundle files in the simple BEGIN/END CERTIFICATE file format, as described in the `x509(1)` manual page. Distrust information cannot be represented in this file format, and distrusted certificates are missing from these files. File `tls-ca-bundle.pem` contains CA certificates trusted for TLS server authentication. File `email-ca-bundle.pem` contains CA certificates trusted for E-Mail protection. File `objsigh-ca-bundle.pem` contains CA certificates trusted for code signing.

**COMMANDS**

--------

(absent/empty command):::

Same as the `*extract*` command described below. (However, the command may print fewer warnings, as this command is being run during rpm package installation, where non-fatal status output is undesired.)

`*extract*:::`

Instruct `update-ca-trust` to scan the `<<sourceconf,SOURCE CONFIGURATION>>` and produce updated versions of the consolidated configuration files stored below the `/etc/pki/ca-trust/extracted` directory hierarchy.

**FILES**

-----

`/etc/pki/tls/certs/ca-bundle.crt::`

Classic filename, file contains a list of CA certificates trusted for TLS server authentication usage, in the simple BEGIN/END CERTIFICATE file format, without distrust information. This file is a symbolic link that refers to the consolidated output created by the `update-ca-trust` command.

`/etc/pki/tls/certs/ca-bundle.trust.crt::`

Classic filename, file contains a list of CA certificates in the extended BEGIN/END TRUSTED CERTIFICATE file
format, which includes trust (and/or distrust) flags specific to certificate usage.
This file is a symbolic link that refers to the consolidated output created by the update-ca-trust command.

/etc/pki/java/cacerts::
Classic filename, file contains a list of CA certificates trusted for TLS server authentication usage, in the Java keystore file format, without distrust information.
This file is a symbolic link that refers to the consolidated output created by the update-ca-trust command.

/usr/share/pki/ca-trust-source::
Contains multiple, low priority source configuration files as explained in section <<sourceconf,SOURCE CONFIGURATION>>. Please pay attention to the specific meanings of the respective subdirectories.

/etc/pki/ca-trust/source::
Contains multiple, high priority source configuration files as explained in section <<sourceconf,SOURCE CONFIGURATION>>. Please pay attention to the specific meanings of the respective subdirectories.

/etc/pki/ca-trust/extracted::
Contains consolidated and automatically generated configuration files for consumption by applications, which are created using the 'update-ca-trust extract' command. Don't edit files in this directory, because they will be overwritten.
See section <<extractconf,EXTRACTED CONFIGURATION>> for additional details.

AUTHOR
------
Written by Kai Engert and Stef Walter.

Found in path(s):
* /opt/cola/permits/1348498798_1655827029.064334/0/ca-certificates-2020.2.41-70.0.el7_8.src.rpm-cosi-expand-archive-L3IwXukb/update-ca-trust.8.txt
No license file was found, but licenses were detected in source scan.

\\
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\\
ca-legacy(8)
==============
NAME
----
ca-legacy - Manage the system configuration for legacy CA certificates

SYNOPSIS
--------
*ca-legacy* ['COMMAND']

DESCRIPTION
-----------
ca-legacy(8) is used to include or exclude a set of legacy Certificate Authority (CA) certificates in the system's list of trusted CA certificates.

The list of CA certificates and trust flags included in the ca-certificates package are based on the decisions made by Mozilla.org according to the Mozilla CA policy.

Occasionally, removal or distrust decisions made by Mozilla.org might be incompatible with the requirements or limitations of some applications that also use the CA certificates list in the Linux environment.

The ca-certificates package might keep some CA certificates included and trusted by default, as long as it is seen necessary by the maintainers, despite the fact that they have been removed by Mozilla. These certificates are called legacy CA certificates.

The general requirements to keep legacy CA certificates included and trusted might change over time, for example if functional limitations of software packages have been resolved. Future versions of the ca-certificates package might reduce the set of legacy CA certificates that are included and trusted by default.

The ca-legacy(8) command can be used to override the default behaviour.

The mechanisms to individually trust or distrust CA certificates as described in update-ca-trust(8) still apply.

COMMANDS
--------
*check*::
   The current configuration will be shown.

*default*::
   Configure the system to use the default configuration, as recommended by the package maintainers.
Configure the system to explicitly disable legacy CA certificates. Using this configuration, the system will use the set of included and trusted CA certificates as released by Mozilla.

The configuration file will be read and the system configuration will be set accordingly. This command is executed automatically during upgrades of the ca-certificates package.

FILES
-----
/etc/pki/ca-trust/ca-legacy.conf::
A configuration file that will be used and modified by the ca-legacy command.
The contents of the configuration file will be read on package upgrades.

AUTHOR
-----
Written by Kai Engert.

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# This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.

# certdata.txt
# This file contains the object definitions for the certs and other information "built into" NSS.
# Object definitions:
# Certificates
# -- Attribute --  -- type --  -- value --
# CKA_CLASS  CK_OBJECT_CLASS  CKO_CERTIFICATE
# CKA_TOKEN  CK_BBOOL  CK_TRUE
# CKA_PRIVATE  CK_BBOOL  CK_FALSE
# CKA_MODIFIABLE  CK_BBOOL  CK_FALSE
# CKA_LABEL  UTF8  (varies)
# CKA_CERTIFICATE_TYPE  CK_CERTIFICATE_TYPE  CKC_X_509
# CKA_SUBJECT  DER+base64  (varies)
# CKA_ID  byte array  (varies)
# CKA_ISSUER  DER+base64  (varies)
# CKA_SERIAL_NUMBER  DER+base64  (varies)
# CKA_VALUE  DER+base64  (varies)
# CKA_NSS_EMAIL  ASCII7  (unused here)
# CKA_NSS_SERVER_DISTRUST_AFTER  DER+base64  (varies)
# CKA_NSS_EMAIL_DISTRUST_AFTER  DER+base64  (varies)
#
# Trust
#
# -- Attribute --  -- type --  -- value --
# CKA_CLASS  CK_OBJECT_CLASS  CKO_TRUST
# CKA_TOKEN  CK_BBOOL  CK_TRUE
# CKA_PRIVATE  CK_BBOOL  CK_FALSE
# CKA_MODIFIABLE  CK_BBOOL  CK_FALSE
# CKA_LABEL  UTF8  (varies)
# CKA_ISSUER  DER+base64  (varies)
# CKA_SERIAL_NUMBER  DER+base64  (varies)
# CKA_CERT_HASH  binary+base64  (varies)
# CKA_EXPIRES  CK_DATE  (not used here)
# CKA_TRUST_DIGITAL_SIGNATURE  CK_TRUST  (varies)
# CKA_TRUST_NON_REPUDIATION  CK_TRUST  (varies)
# CKA_TRUST_KEY_ENCIPHERMENT  CK_TRUST  (varies)
# CKA_TRUST_DATA_ENCIPHERMENT  CK_TRUST  (varies)
# CKA_TRUST_KEY_AGREEMENT  CK_TRUST  (varies)
# CKA_TRUST_KEY_CERT_SIGN  CK_TRUST  (varies)
# CKA_TRUST_CRL_SIGN  CK_TRUST  (varies)
# CKA_TRUST_SERVER_AUTH  CK_TRUST  (varies)
# CKA_TRUST_CLIENT_AUTH  CK_TRUST  (varies)
# CKA_TRUST_CODE_SIGNING  CK_TRUST  (varies)
# CKA_TRUST_EMAIL_PROTECTION  CK_TRUST  (varies)
# CKA_TRUST_IPSEC_END_SYSTEM  CK_TRUST  (varies)
# CKA_TRUST_IPSEC_TUNNEL  CK_TRUST  (varies)
# CKA_TRUST_IPSEC_USER  CK_TRUST  (varies)
# CKA_TRUST_TIME_STAMPING  CK_TRUST  (varies)
# CKA_TRUST_STEP_UP_APPROVED  CK_BBOOL  (varies)
# (other trust attributes can be defined)
#
#
# The object to tell NSS that this is a root list and we don't
# have to go looking for others.
#
# BEGIN_DATA
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_BUILTIN_ROOT_LIST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Mozilla Builtin Roots"
#
# Certificate "GlobalSign Root CA"
#
# Issuer: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Serial Number:04:00:00:00:00:01:15:4b:5a:c3:94
# Subject: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Tue Sep 01 12:00:00 1998
# Not Valid After : Fri Jan 28 12:00:00 2028
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
END
CKA_VALUE MULTILINE_OCTAL
END

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# Trust for Certificate "GlobalSign Root CA"

# Issuer: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Serial Number:04:00:00:00:00:01:15:4b:5a:c3:94
# Subject: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Tue Sep 01 12:00:00 1998
# Not Valid After : Fri Jan 28 12:00:00 2028

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\261\274\226\213\324\364\235\142\052\250\232\201\362\025\001\122
\244\035\202\234

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\076\105\013\004\000\000\000\001\113\132\303\224

CKA_ISSUER MULTILINE_OCTAL
\060\127\061\130\060\011\100\006\003\125\004\006\023\002\012\010\061
\031\060\027\006\003\125\004\012\023\020\017\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\020\060\016\006\003
\125\004\013\023\007\122\157\157\164\040\103\101\061\033\060\003\1
\006\003\125\004\003\023\022\017\154\157\142\141\154\123\151\147
\156\040\122\157\157\164\040\103\101

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\030\004\000\000\000\000\000\001\025\113\132\303\224

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "GlobalSign Root CA - R2"

# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R2
# Serial Number: 04:00:00:00:01:0f:86:26:e6:0d
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R2
# Not Valid Before: Fri Dec 15 08:00:00 2006
# Not Valid After : Wed Dec 15 08:00:00 2021

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END

### Certificate "GlobalSign Root CA - R2"
# Trust for Certificate "GlobalSign Root CA - R2"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R2
# Serial Number:04:00:00:00:01:01:03:86:26:e6:0d
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R2
# Not Valid Before: Fri Dec 15 08:00:00 2006
# Not Valid After : Wed Dec 15 08:00:00 2021

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Certificate "Verisign Class 1 Public Primary Certification Authority - G3"
# Issuer: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Serial Number:00:8b:5b:75:56:84:54:85:0b:00:cf:af:38:48:ce:b1:a4
# Subject: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Trust for Certificate "Verisign Class 1 Public Primary Certification Authority - G3"
# Issuer: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Serial Number:00:8b:5b:75:56:84:54:85:0b:00:cf:af:38:48:ce:b1:a4
# Subject: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After : Wed Jul 16 23:59:59 2036

cka_nss_mozilla_ca_policy ck_bbool ck_true
cka_nss_server_distrust_after ck_bbool ck_false
cka_nss_email_distrust_after ck_bbool ck_false

cka_class ck_object_class cko_nss_trust
cka_token ck_bbool ck_true
cka_private ck_bbool ck_false
cka_modifiable ck_bbool ck_false
cka_label utf8 "Verisign Class 1 Public Primary Certification Authority - G3"
cka_cert_sha1_hash multiline_octal
cka_cert_md5_hash multiline_octal
cka_issuer multiline_octal
cka issuer multiline_octal

Certificate "Verisign Class 2 Public Primary Certification Authority - G3"

Issuer: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US


Subject: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US

Not Valid Before: Fri Oct 01 00:00:00 1999


Verisign Class 2 Public Primary Certification Authority - G3

Certificate_Type CK_Certificate

Verify_Trust CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

Email_protection CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

Signature_Trust CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

Step_up_Approved CK_BBOOL CK_FALSE

Subject UTF8 "Verisign Class 2 Public Primary Certification Authority - G3"

Certificate_Type CK_Certificate

Subject.Multiline_Octal

Token CK_BBOOL CK_TRUE

Private CK_BBOOL CK_FALSE

Modifiable CK_BBOOL CK_FALSE

Label "Verisign Class 2 Public Primary Certification Authority - G3"

Certificate_Type CK_Certificate

Subject.Multiline_Octal
END

# Trust for Certificate "Verisign Class 2 Public Primary Certification Authority - G3"
# Issuer: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",O="VeriSign Trust Network",C=US
# Subject: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",O="VeriSign Trust Network",C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After : Wed Jul 16 23:59:59 2036

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verisign Class 2 Public Primary Certification Authority - G3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\141\357\103\327\177\312\324\141\121\274\230\340\033\131\022\257
\237\353\143\021

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\370\276\304\143\042\311\250\106\164\213\270\035\036\112\053\366

CKA_ISSUER MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\020\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\060\126\145\162\151\123\151\147\156\040\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\060\105\040\130\011\040\061\071\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\056\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\013\006\003\125\004\040\032
\074\126\145\162\151\123\151\147\156\040\013\154\141\163\163\040
\062\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\140\013\145\162\164\151\146\151\134\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\141\160\313\111\214\137\230\105\051\347\260\246\331\120
\133\172

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_Trust CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Verisign Class 3 Public Primary Certification Authority - G3"
#
# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=VeriSign Class 3 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After : Wed Jul 16 23:59:59 2036
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verisign Class 3 Public Primary Certification Authority - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\012\164\162\151\123\151\147\156\040\124\162\165
\163\164\001\116\145\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\040\010
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\063\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\104\013\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\012\145\162\151\123\151\147\156\040\124\162\165
\163\164\001\116\145\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\040\010
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\063\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\104\013\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\233\176\006\111\243\076\142\271\325\356\220\110\161
Open Source Used In HyperFlex HX Data Platform 4.5(2d) 12803
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Verisign Class 3 Public Primary Certification Authority - G3"
# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G3,OU=",C=US
# Subject: CN=Verisign Class 3 Public Primary Certification Authority - G3
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After : Wed Jul 16 23:59:59 2036

END

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_LABEL UTF8 "Verisign Class 3 Public Primary Certification Authority - G3"

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Verisign Class 3 Public Primary Certification Authority - G3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\023\055\015\105\123\113\151\227\315\140\233\134\306

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\315\150\266\247\307\304\316\165\340\035\117\127\104\141\222\011

END
CKA_ISSUER MULTILINE_OCTAL
\060\0201\312\061\013\060\0011\006\0003\125\004\006\023\002\125\123
\061\027\060\025\006\0003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\011\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\012\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\014\004\061\071\071\071\040\126\145
\162\151\123\151\147\156\054\040\011\156\143\056\040\055\040\106
\157\162\040\141\165\161\165\162\151\172\145\144\040\165\163
\145\040\157\165\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\010\154\141\163\163\040
\063\040\120\165\142\151\143\040\120\162\151\155\141\162\171
\140\013\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\005\040\107\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\233\176\006\243\076\142\271\325\356\220\110\161
\051\357\127
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Distrust "Distrust: O=Egypt Trust, OU=VeriSign Trust Network (cert 1/3)"
# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G3,OU=(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Serial Number: 4c:00:36:1b:e5:08:2b:a9:aa:ce:74:0a:05:3e:fb:34
# Subject: CN=Egypt Trust Class 3 Managed PKI Enterprise Administrator CA,OU=Terms of use at https://www.egypttrust.com/repository/rpa (c)08,OU=VeriSign Trust Network,O=Egypt Trust,C=EG
# Not Valid Before: Sun May 18 00:00:00 2008
# Not Valid After : Thu May 17 23:59:59 2018

# Distrust "Distrust: O=Egypt Trust, OU=VeriSign Trust Network (cert 1/3)"
# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Serial Number: 4c:00:36:1b:e5:08:2b:a9:aa:ce:74:0a:05:3e:fb:34
# Subject: CN=Egypt Trust Class 3 Managed PKI Enterprise Administrator CA,OU=Terms of use at https://www.egypttrust.com/repository/rpa (c)08,OU=VeriSign Trust Network,O=Egypt Trust,C=EG
# Not Valid Before: Sun May 18 00:00:00 2008
# Not Valid After : Thu May 17 23:59:59 2018

CKA_CLASS CK OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Distrust: O=Egypt Trust, OU=VeriSign Trust Network (cert 1/3)"

CKA_ISSUER MULTILINE_OCTAL
\060\0201\312\061\013\060\0011\006\0003\125\004\006\023\002\125\123
\061\027\060\025\006\0003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\011\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\012\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\014\004\061\071\071\071\040\126\145
\162\151\123\151\147\156\054\040\011\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163


\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\063\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\114\000\066\033\345\010\053\251\252\316\164
\373\064

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Distrust "Distrust: O=Egypt Trust, OU=VeriSign Trust Network (cert 2/3)"
# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=Egypt Trust Class 3 Managed PKI Operational Administrator CA,OU=Terms of use at https://www.egypttrust.com/repository/rpa (c)08,OU=VeriSign Trust Network,O=Egypt Trust,C=EG
# Not Valid Before: Sun May 18 00:00:00 2008
# Not Valid After : Thu May 17 23:59:59 2018

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Distrust: O=Egypt Trust, OU=VeriSign Trust Network (cert 2/3)"

CKA_ISSUER MULTILINE_OCTAL
\060\020\131\120\010\130\006\003\125\004\006\023\002\125\123
\061\027\060\250\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\063\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\076\014\236\207\151\125\225\134\352\043\330\105\236\324
\133\121
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Distrust "Distrust: O=Egypt Trust, OU=VeriSign Trust Network (cert 3/3)"
# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G3,OU=",(c) 1999 VeriSign, Inc. - For
authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=Egypt Trust Class 3 Managed PKI SCO Administrator CA,OU=Terms of use at
https://www.egypttrust.com/repository/rpa (c)08,OU=VeriSign Trust Network,O=Egypt Trust,C=EG
# Not Valid Before: Sun May 18 00:00:00 2008
# Not Valid After : Thu May 17 23:59:59 2018

# Certificate "Entrust.net Premium 2048 Secure Server CA"
Open Source Used In HyperFlex HX Data Platform 4.5(2d) 12809


\023\001\00137\004\005\060\003\001\001\377\060\035\006\003\125
\035\016\004\026\004\024\125\344\201\321\001\212\002\276\330\211\271
\010\243\061\371\241\044\011\026\271\160\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\003\202\001\001\000\073\233
\217\126\233\060\347\123\231\174\172\171\124\115\227\327\031\225
\220\373\000\060\373\132\063\174\106\143\217\226\146\044\372\100\033
\041\047\123\132\346\162\163\362\117\376\061\123\137\35\100\141\114\150
\123\306\200\202\203\230\372\266\255\332\135\075\361\131\156\166
\025\201\22\202\014\356\077\225\257\021\123\172\057\336\037
\003\217\127\054\036\131\127\123\123\032\014\225\353\030\117\246\037
\315\175\127\20\057\233\004\011\322\204\265\015\363\030\072\341
\326\236\321\154\171\136\171\103\042\030\035\333\320\014\223\073\145
\074\135\337\075\276\246\345\225\032\303\265\031\033\275\136\133
\273\377\043\357\150\031\131\022\223\047\134\003\055\157\060\320
\036\266\032\254\336\132\367\321\252\250\047\246\376\171\013\034
\171\123\063\127\272\022\260\251\340\010\154\223\312\126\336\036
\155\204\013\010\213\176\215\352\327\230\041\306\363\347\074\171
\057\136\234\321\114\025\215\341\335\042\067\314\232\103\013\227
\334\100\220\215\263\147\233\157\110\010\025\126\317\277\361\053
\174\136\232\166\351\131\022\035\174\203\065\021\145\121
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Entrust.net Premium 2048 Secure Server CA"
# Issuer: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net
Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
# Serial Number: 946069240 (0x3863def8)
# Subject: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net
Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
# Not Valid Before: Fri Dec 24 17:50:51 1999
# Not Valid After : Tue Jul 24 14:15:12 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust.net Premium 2048 Secure Server CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\120\060\006\010\035\227\324\365\256\071\136\313\347\222\175\175
\145\055\064\061
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\356\051\061\274\062\176\232\346\350\265\367\121\264\064\161\220
END
CKA_ISSUER MULTILINE_OCTAL
Certificate "Baltimore CyberTrust Root"

Issuer: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
Serial Number: 33554617 (0x20000b9)
Subject: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
Not Valid Before: Fri May 12 18:46:00 2000
Not Valid After: Mon May 12 23:59:00 2025

Certificate "Baltimore CyberTrust Root"

Open Source Used In HyperFlex HX Data Platform 4.5(2d) 12811
# Trust for Certificate "Baltimore CyberTrust Root"
# Issuer: CN=Baltimore CyberTrust Root,OU= CyberTrust,O=Baltimore,C=IE
# Serial Number: 33554617 (0x20000069)
# Subject: CN=Baltimore CyberTrust Root,OU= CyberTrust,O=Baltimore,C=IE
# Not Valid Before: Fri May 12 18:46:00 2000
# Not Valid After : Mon May 12 23:59:00 2025

cka_class cko_nss_trust
cka_token ckbool ck_true
cka_private ckbbool ck_false
cka_modifiable ckbbool ck_false
cka_label utf8 "Baltimore CyberTrust Root"
cka_cert_sha1_hash multline_octal
\324\336\040\320\136\146\374\123\376\032\120\210\054\170\333\050
\122\312\344\164
end
cka_cert_md5_hash multline_octal
\254\260\224\245\234\027\340\327\221\122\233\261\127\006\246\344
end
ckaIssuer multline_octal
\060\132\066\011\106\003\125\004\006\023\002\111\105\061
\022\060\020\006\003\125\004\012\023\011\102\141\154\164\151\155
\157\162\145\061\023\060\021\106\003\125\004\013\023\012\103\171
\142\145\162\124\162\165\163\164\061\042\060\040\006\003\125\004

Open Source Used In HyperFlex HX Data Platform 4.5(2d) 12813
# Certificate "Entrust Root Certification Authority"

# Issuer: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US
# Serial Number: 1164660820 (0x456b5054)
# Subject: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US
# Not Valid Before: Mon Nov 27 20:23:42 2006
# Not Valid After : Fri Nov 27 20:53:42 2026
# Fingerprint (MD5): D6:A5:C3:ED:5D:DD:3E:00:C1:3D:87:92:1F:1D:3F:E4
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\025\033\010\377\331\326\035\033\035\377\200\202\113\311\255\076\336\143\333
\020\020\020\120\000\000\035\045\045\000\120\075\030\315\373\373
\052\131\132\043\125\027\054\105\026\037\156\103\171\155\014\134
\200\037\110\124\370\045\031\077\134\136\375\156\347\036\264\366
\015
\015\032\120\063\201\133\224\212\215\256\343\051\200\376\045\161\121
\255\027\026\172\171\222\226\113\025\121\121\155\344\023\060\103\350
\116\115\123\377\333\325\263\152\325\127\047\111\241\161\132\172\171
\220\035\175\035\020\033\121\273\131\046\302\021\113\376\346\223\342
\367\200\344\145\373\064\046\016\051\200\160\101\115\257\070\206\056
\236\177\127\257\236\027\256\353\034\313\050\041\113\266\034\330
\347\242\004\042\377\133\333\332\330\313\020\030\100\000\000\124\201
\260\060\012\255\060\016\060\003\031\250\035\017\001\000\137\700\040\004
\003\000\02\001\000\060\017\000\003\125\035\023\000\100\137\700\040\005
\060\003\000\100\137\700\060\053\060\003\125\035\020\004\044\060\042
\200\017\062\060\016\060\006\016\062\067\062\060\062\063\064\062
\132\201\017\062\060\062\066\061\061\062\067\062\060\065\063\064
\062\201\320\060\037\006\003\125\035\043\004\030\060\026\200\024\150
\200\034\147\242\246\123\200\037\070\061\146\244\361\367\113\103\337
\204\275\155\060\035\000\125\035\016\004\026\004\024\150\220
\344\147\242\246\123\200\037\061\146\244\361\367\113\103\337
\275\155\060\035\000\110\252\020\110\140\266\175\007\101\000\004
\020\060\016\033\010\126\067\056\061\072\064\056\060\003\000\200\024
\220\060\015\006\011\052\206\110\206\067\051\001\001\005\005\000
\003\022\001\001\000\022\323\064\060\206\327\003\040\052\320\371\114
\350\221\104\050\040\251\113\070\131\121\131\162\116\324\261\333\320
\226\373\124\132\031\054\014\100\136\272\274\272\272\272\250\235\177\155
\073\112\263\052\333\347\324\204\214\143\336\017\313\046\001\122
\120\154\364\137\072\024\323\223\164\300\032\236\060\072\120\343\326
\140\035\034\364\060\042\104\215\161\110\725\431\032\111\351\123\323
\000\140\023\377\160\176\137\021\115\111\103\263\025\122\137\311
\124\332\277\235\225\257\153\323\333\020\363\351\361\344\103\215\342
\021\104\072\272\275\275\203\102\163\122\121\232\273\247\051\317
\365\144\034\012\115\321\274\252\254\237\052\320\377\177\177\332
\175\532\261\135\060\045\301\204\332\043\222\131\170\203\126\354
\124\066\030\046\342\021\136\047\111\035\222\253\214\373\353\377
\172\256\205\112\247\120\200\060\247\134\112\224\056\137\005\231
\074\122\101\340\031\152\64\143\331\017\010\327\234\203\333\217\140
\073\363\132\264\264\173\256\332\013\222\070\165\357\201\035\146
\322\267\127\160\066\263\277\374\050\257\161\045\205\133\023\376
\036\177\132\264\074
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Entrust Root Certification Authority"
# Issuer: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS
# is incorporated by reference,O="Entrust, Inc.",C=US
# Certificate "GeoTrust Global CA"
#
# Issuer: CN=GeoTrust Global CA,O=GeoTrust Inc.,C=US
# Serial Number: 144470 (0x23456)
# Not Valid Before: Tue May 21 04:00:00 2002
# Trust for Certificate "GeoTrust Global CA"
# Issuer: CN=GeoTrust Global CA,O=GeoTrust Inc.,C=US
# Serial Number: 144470 (0x23456)
# Subject: CN=GeoTrust Global CA,O=GeoTrust Inc.,C=US
# Not Valid Before: Tue May 21 04:00:00 2002
# Not Valid After : Sat May 21 04:00:00 2022
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Global CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\336\050\364\244\377\345\271\057\243\305\003\321\243\111\247\371
\226\052\202\022
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\367\165\253\051\373\121\116\267\167\136\377\005\074\231\216\365
END
CKA_ISSUER_MULTILINE_OCTAL
\060\102\061\006\000\012\25\004\000\000\000\000\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\011\156\143\056\061\033\060\031\006\003\125\004\003
\023\022\107\145\157\124\162\165\163\164\040\107\154\157\142\141
\154\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\002\064\126
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "GeoTrust Universal CA"
#
# Issuer: CN=GeoTrust Universal CA,O=GeoTrust Inc.,C=US
# Serial Number: 1 (0x1)
# Subject: CN=GeoTrust Universal CA,O=GeoTrust Inc.,C=US
# Not Valid Before: Thu Mar 04 05:00:00 2004
# Not Valid After : Sun Mar 04 05:00:00 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Universal CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT_MULTILINE_OCTAL
\060\105\061\013\060\001\100\000\125\004\006\023\002\125\123\061
\026\060\024\006\000\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\036\060\034\006\003\125\004\003
\023\025\107\145\157\124\162\165\163\164\040\125\156\151\166\145
\162\163\141\154\040\103\101
# Trust for Certificate "GeoTrust Universal CA"
# Issuer: CN=GeoTrust Universal CA,O=GeoTrust Inc.,C=US
# Serial Number: 1 (0x1)
# Not Valid Before: Thu Mar 04 05:00:00 2004
# Not Valid After : Sun Mar 04 05:00:00 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Universal CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\346\041\363\065\103\171\005\232\113\150\060\235\212\057\164\042
\025\207\354\171

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\222\145\130\213\242\032\061\162\163\150\134\264\245\172\007\110

CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\001\100\060\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\014\017\145\157\124\162\165
\163\164\040\111\156\143\056\106\136\060\034\006\003\125\004\003
\023\025\107\145\157\124\162\165\163\164\040\125\156\151\166\145
\162\163\141\154\040\103\101

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "GeoTrust Universal CA 2"
#
#
# Issuer: CN=GeoTrust Universal CA 2,O=GeoTrust Inc.,C=US
# Serial Number: 1 (0x1)
# Subject: CN=GeoTrust Universal CA 2,O=GeoTrust Inc.,C=US
# Not Valid Before: Thu Mar 04 05:00:00 2004
# Not Valid After: Sun Mar 04 05:00:00 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Universal CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\13\060\01\11\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\040\060\036\006\003\125\004\003
\023\027\107\145\157\124\162\165\163\164\040\125\156\151\166\145
\162\163\141\154\040\103\101\040\062
END

CKA_ID UTF8 "0"

CKA_ISSUERMULTILINE_OCTAL
\060\107\061\13\060\01\11\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\040\060\036\006\003\125\004\003
\023\027\107\145\157\124\162\165\163\164\040\125\156\151\166\145
\162\163\141\154\040\103\101\040\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001

END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\154\060\020\03\124\240\003\002\001\002\002\001\001\002\002\017\000\060\202\002\012\002\202\002\001\000\060\107\061\013\060\01\11\006\003\125\004\060\023\002\125\123\061
\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165\163\164\040\125\156\151\166\145
\162\163\141\154\040\103\101\040\062\060\036\027\015\060\064\060\063
\060\064\060\065\060\060\060\060\060\060\132\027\015\062\07\061\063\060\063\060
\064\060\065\060\060\060\060\132\060\07\061\063\060\011\006\003
\125\004\006\023\002\125\123\061\026\060\024\006\003\125\004\012
\023\015\107\145\157\124\162\165\163\164\040\11\11\156\143\056\061
\040\060\036\006\003\125\004\003\023\027\107\145\157\124\162\165\163\164\040\125\156\151\166\145
\162\163\141\154\040\103\101\040\062\060\036\027\015\060\064\060\063
\060\064\060\065\060\060\060\060\060\060\132\027\015\062\07\061\063\060\063\060
\064\060\065\060\060\060\060\132\060\07\061\063\060\011\006\003
\125\004\006\023\002\125\123\061\026\060\024\006\003\125\004\012
\023\015\107\145\157\124\162\165\163\164\040\11\11\156\143\056\061
\040\060\036\006\003\125\004\003\023\027\107\145\157\124\162\165
\162\163\164\040\125\156\151\166\145
\162\163\141\154\040\103\101\040\062

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\352\312\352\343\225\266\032\344\225\266\030\164\250
\152\071\307\264\364\023\304\344\133\355\012\322\244\227\140\052
\355\057\154\022\211\075\361\047\160\252\152\003\1\220\041\237\100
\250\147\120\363\236\132\037\337\043\366\334\170\116\346\230
\117\125\072\123\343\357\362\364\237\071\174\333\013\025\057\051\042
\227\270\340\275\221\056\260\166\354\127\021\317\357\051\010\363
\351\120\172\140\143\344\135\063\121\027\331\061\252\332\326\363
\030\065\162\317\207\053\057\143\043\204\135\204\214\077\127\240
\210\374\231\221\075\050\046\151\231\324\217\227\104\276\216\325\110
\261\244\050\051\361\025\264\341\345\236\335\370\127\246\157\046
\327\011\074\072\034\021\016\246\154\067\367\255\104\207\054\050
\307\330\164\202\263\320\157\112\127\273\065\051\047\240\213\350
\041\247\207\144\066\135\314\030\262\254\307\262\047\110\222\125
\070\050\215\121\156\335\024\147\123\154\161\134\046\204\115\165
\132\266\176\140\126\251\115\155\373\233\036\227\363\015\331\322
\227\124\167\332\075\022\267\340\036\357\010\006\254\147\105\027
\351\124\333\245\176\030\022\203\375\126\027\101\056\325\051\202
\175\231\364\061\366\161\251\317\054\001\047\245\005\271\252\262
\110\116\052\357\237\223\122\121\225\074\122\163\161\266\114\027
\100\000\01\110\050\034\213\152\110\123\333\354\135\125\125\361\036
\370\351\242\054\114\246\031\046\171\176\257\132\114\332\037\246
\362\034\054\176\256\000\206\322\126\320\057\127\123\107\350\222
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "GeoTrust Universal CA 2"
# Issuer: CN=GeoTrust Universal CA 2,O=GeoTrust Inc.,C=US
# Serial Number: 1 (0x1)
# Not Valid Before: Thu Mar 04 05:00:00 2004
# Not Valid After : Sun Mar 04 05:00:00 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Universal CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\067\232\031\173\101\205\105\065\014\246\003\151\363\074\056\257
\107\117\040\171
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\064\374\270\320\066\333\236\024\263\302\362\333\127\344\224\307
END
CKA_ISSUER MULTILINE_OCTAL
```


\060\010\077\061\013\060\001\11006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\105
\163\164\040\111\156\143\056\061\104\006\036\006\003\125\004\003
\023\027\107\145\157\124\162\165\163\164\040\125\156\151\166\145
\162\163\141\154\040\103\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "Certum Root CA"
#
# Issuer: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Serial Number: 65568 (0x10020)
# Subject: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Not Valid Before: Tue Jun 11 10:46:39 2002
# Not Valid After : Fri Jun 11 10:46:39 2027
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\076\061\013\060\001\11006\003\125\004\006\023\002\120\114\061
\033\060\031\006\003\125\004\012\023\022\125\156\151\172\145\164
\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060\020
\006\003\125\004\003\023\011\103\145\162\164\165\155\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\076\061\103\060\011\11006\003\125\004\006\023\002\120\114\061
\033\060\031\006\003\125\004\012\023\022\125\156\151\172\145\164
\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060\020
\006\003\125\004\003\023\011\103\145\162\164\165\155\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\001\000\040
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\014\060\022\001\364\240\003\002\001\1002\002\003\001
# Trust for Certificate "Certum Root CA"
# Issuer: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Serial Number: 65568 (0x10020)
# Subject: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Not Valid Before: Tue Jun 11 10:46:39 2002
# Not Valid After : Fri Jun 11 10:46:39 2027

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\142\122\334\100\367\021\103\242\057\336\236\367\064\216\006\102\121\261\201\030
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\054\217\237\146\035\030\220\261\107\046\235\216\06\20\214\251
CKA_ISSUER MULTILINE_OCTAL
\060\076\061\013\060\001\100\003\125\004\006\023\002\120\114\061\033\060\031\006\003\125\004\012\023\022\125\156\151\172\145\164\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060\020\006\003\125\004\003\023\011\103\145\162\164\165\155\040\103\101
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\001\100\000\040
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Comodo AAA Services root"
# Issuer: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number: 1 (0x1)
# Subject: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Thu Jan 01 00:00:00 2004
# Not Valid After : Sun Dec 31 23:59:59 2028
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Comodo AAA Services root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\173\013\006\000\011\125\000\000\000\000\023\003\107\102\061
\033\060\003\000\003\125\004\010\140\022\107\162\145\141\164\145
\162\040\115\141\156\143\150\145\163\164\145\162\061\102\060\016
\006\003\125\004\000\07\140\007\123\141\154\146\157\162\144\061\032
\060\030\006\003\125\004\012\014\021\103\157\155\157\144\157\040
\103\101\040\011\151\155\151\164\145\144\061\041\100\037\006\003
\125\004\003\014\030\010\110\101\040\133\145\162\164\151\146\151
\143\141\164\145\040\123\145\162\166\151\143\145\163
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\173\013\006\000\011\125\000\004\000\023\002\107\102\061
\033\060\003\011\000\003\125\004\010\140\022\107\162\145\141\164\145
\162\040\115\141\156\143\150\145\163\164\145\162\061\102\060\016
\006\003\125\004\000\07\140\007\123\141\154\146\157\162\144\061\032
\060\030\006\003\125\004\012\014\021\103\157\155\157\144\157\040
\103\101\040\110\155\151\164\145\144\061\041\100\037\006\003
\125\004\003\014\030\101\101\101\040\133\145\162\164\151\146\151
\143\141\164\145\040\123\145\162\166\151\143\145\163
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\020\004\162\060\160\202\032\240\003\002\001\002\002\001\001
\060\015\006\000\110\052\061\102\063\367\015\001\001\005\005\000\060
\173\061\013\060\011\006\003\125\004\006\002\107\102\061\033
\060\031\006\003\125\004\010\140\022\107\162\145\141\164\145\162
\104\015\141\156\143\150\145\156\164\145\162\012\020\060\016\006
\003\125\004\000\007\140\007\123\141\154\146\157\162\144\061\032
\030\006\003\125\004\02\140\22\103\157\155\157\144\157\040
\101\104\110\141\151\155\151\164\145\144\101\100\03\006\003\125
\104\003\140\030\110\110\101\040\103\145\162\164\151\146\151\143
\141\164\145\040\123\145\162\166\151\143\145\163\060\03\027\015
\060\064\060\061\060\010\060\060\060\060\060\013\022\015\015\062
\070\061\062\063\061\102\063\065\071\065\037\132\060\013
\060\011\006\003\125\004\006\023\002\107\102\061\033\060\016
\003\125\004\010\140\22\107\162\145\141\164\145\162\040\115\141
\156\143\150\145\163\164\145\162\012\020\060\016\006\003\125\004
\007\014\007\123\141\154\146\157\162\144\061\032\060\03\006\003
# Trust for Certificate "Comodo AAA Services root"
# Issuer: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number: 1 (0x1)
# Subject: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Thu Jan 01 00:00:00 2004
# Not Valid After : Sun Dec 31 23:59:59 2028

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Comodo AAA Services root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL \321\353\043\244\155\027\326\217\331\045\144\302\361\140
\144\330\343\111
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL \111\171\004\260\353\207\031\254\107\260\274\021\121\233\164\320
END

CKA_ISSUER MULTILINE_OCTAL \060\173\061\013\060\006\125\004\006\023\002\107\102\061 \033\060\031\006\003\125\004\010\140\022\107\162\145\141\164\145 \162\204\115\141\156\143\150\145\163\164\145\162\061\120\060\016 \006\003\125\004\007\014\007\123\141\154\146\157\162\144\061\032 \060\030\006\003\125\004\021\014\021\103\157\155\157\144\157\040 \103\101\040\114\151\155\151\164\145\144\061\041\060\037\006\003 \125\004\003\140\030\101\101\101\040\103\145\162\164\151\146\151 \143\141\164\145\040\123\145\162\166\151\143\145\163
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\001\001
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "QuoVadis Root CA"

# Issuer: CN=QuoVadis Root Certification Authority,OU=Root Certification Authority,O=QuoVadis Limited,C=BM
# Serial Number: 985026699 (0x3ab6508b)
# Subject: CN=QuoVadis Root Certification Authority,OU=Root Certification Authority,O=QuoVadis Limited,C=BM
# Not Valid Before: Mon Mar 19 18:33:33 2001
# Not Valid After : Wed Mar 17 18:33:33 2021
# Fingerprint (MD5): 27:DE:3F:FE:72:B7:00:03:00:9D:F4:F0:1E:6C:04:24

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\177\061\013\060\011\100\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\115\151\155\164\145\144\061\045\060\043\006\003
\125\004\013\023\034\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\061\056\060\054\006\003\125\004\030\23\045\121\165\157\126
\141\144\151\163\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\100\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\115\151\155\164\145\144\061\045\060\043\006\003
\125\004\013\023\034\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\061\056\060\054\006\003\125\004\030\23\045\121\165\157\126
\141\144\151\163\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\072\266\120\213

END

CKA_VALUE MULTILINE_OCTAL
\002\004\072\266\120\213

END
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "QuoVadis Root CA"
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\160\027\006\003\125\004\012\203\202\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\003\115\060
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\100\040\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\160\027\006\003\125\004\012\203\202\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\003\115\060
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\100\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\005\000
END
CKA_VALUE MULTILINE_OCTAL
\060\160\105\161\137\006\003\125\004\006\023\002\102\115\061
\031\160\027\006\003\125\004\012\203\202\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\003\115\060
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\100\040\062
\064\161\070\067\060\060\132\027\015\063\060\061\165\010\62\064
\001\160\070\062\063\063\063\132\026\055\160\101\006\031\025
\000\003\020\002\012\115\061\011\006\003\025\004\012\023
\020\121\165\157\126\141\144\151\163\040\122\157
\151\164\040\103\101\040\062\060\063\027\15\160\060\061\160\040
\164\061\070\062\067\060\060\132\027\015\063\060\061\165\010\62\064
\001\160\070\062\063\063\063\132\026\055\160\101\006\031\025
\000\003\020\002\012\115\061\011\006\003\025\004\012\023
\020\121\165\157\126\141\144\151\163\040\122\157
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "QuoVadis Root CA 2"
# Issuer: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
# Serial Number: 1289 (0x509)
# Subject: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
# Not Valid Before: Fri Nov 24 18:27:00 2006
# Not Valid After : Mon Nov 24 18:23:33 2031

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\312\072\373\317\022\100\066\113\104\262\026\040\210\020\011\070\016\041\043\111\067\057\171\141\074\034\037\342\213\046\122\011\005\145\020\006\013\150\026

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\136\071\173\335\370\272\354\020\351\254\142\272\014\124\000\053

END
CKA_ISSUER MULTILINE_OCTAL
\060\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\144\144\151\163\040\122\157
\157\164\040\103\101\040\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\005\011
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "QuoVadis Root CA 3"
#
# Issuer: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Serial Number: 1478 (0x5c6)
# Subject: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Not Valid After : Mon Nov 24 19:06:44 2031

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "QuoVadis Root CA 3"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\144\061\103\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\103\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\005\011

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\0306\320\101\301\053\352\117\022\207\136\353\105\305\154\365\230
\0023\232\240\330\125\212\006\231\031\242\240\167\321\060\236\254
\314\165\356\236\365\260\142\071\137\154\127\342\114\322\221\013
\016\165\050\033\332\232\277\375\032\103\361\312\167\373\073\217\141
\270\151\050\026\020\041\163\160\052\034\041\133\027\173\043
\133\055\164\100\222\331\143\031\105\163\335\151\274\142\107\274
\340\164\053\262\353\175\276\101\033\265\300\106\305\241\042\313
\137\116\301\050\022\22\360\030\272\325\025\050\273\021\123\027\223
\202\231\140\224\134\043\317\132\047\227\136\013\005\006\223\067
\036\073\151\060\353\251\123\61\141\035\217\062\332\216\014\326\164
\076\173\101\044\332\001\116\170\340\073\135\064\214\231\365\312
\341\045\141\063\262\131\033\342\156\327\067\127\266\015\251\022
\332
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "QuoVadis Root CA 3"
# Issuer: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Serial Number: 1478 (0x5c6)
# Subject: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Not Valid After : Mon Nov 24 19:06:44 2031
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\037\111\024\367\330\164\225\035\335\256\002\300\276\375\072\055
\202\165\121\205
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\061\205\074\142\224\227\143\271\125\237\211\116\257\157\340\317
END

CKA_ISSUER MULTILINE_OCTAL
\060\105\061\103\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\005\306
END
```
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Security Communication Root CA"
#
# Issuer: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Not Valid Before: Tue Sep 30 04:20:49 2003
# Not Valid After : Sat Sep 30 04:20:49 2023

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"

END

CKA_ISSUER MULTILINE_OCTAL
\060\120\061\013\013\060\011\010\006\003\125\004\006\023\002\112\120\061\030\060\026\006\003\125\004\012\023\017\123\015\013\117\115\040\124\162\165\163\164\156\145\164\061\047\060\045\006\003\125\004\013\023\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156\151\143\141\164\151\157\156\040\122\157\157\164\103\101\061

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000

END

CKA_VALUE MULTILINE_OCTAL
\060\202\003\132\060\022\002\102\240\003\002\001\002\002\001\000\060\015\006\011\052\206\110\206\367\015\001\001\005\005\006\060\120\061\013\060\011\006\003\125\004\006\023\002\112\120\061\030\060\026\006\003\125\004\012\023\017\123\015\013\117\115\040\124\162\165\163\164\156\145\164\061\047\060\045\006\003\125\004\013\023\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156\151\143\141\164\151\157\156\040\122\157\157\164\103\101\061

END

CKA_LABEL UTF8 "Security Communication Root CA"

END

END
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Security Communication Root CA"
# Issuer: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Not Valid Before: Tue Sep 30 04:20:49 2003
# Not Valid After : Sat Sep 30 04:20:49 2023
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL\066\261\053\111\371\201\236\327\114\236\274\070\017\306\126\217\135\254\262\367
CKA_CERT_MD5_HASH MULTILINE_OCTAL\361\274\143\152\124\340\265\047\365\315\347\032\343\115\156\112
CKA_ISSUER MULTILINE_OCTAL\060\120\061\013\060\011\006\003\125\004\006\023\002\112\120\061\030\060\026\006\003\125\004\012\023\017\123\105\013\117\115\040\124\162\165\163\164\056\156\145\164\061\047\060\045\006\003\125\004\013\023\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156\151\143\141\164\151\157\156\040\122\157\157\164\103\101\061
CKA_SERIAL_NUMBER MULTILINE_OCTAL\002\001\000
CKA_TRUST_SERVER_AUTH CK_TRUST CK_T_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CK_T_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CK_T_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Sonera Class 2 Root CA"
# Issuer: CN=Sonera Class2 CA,O=Sonera,C=FI
# Serial Number: 29 (0x1d)
# Subject: CN=Sonera Class2 CA,O=Sonera,C=FI
# Not Valid Before: Fri Apr 06 07:29:40 2001
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Sonera Class 2 Root CA"
# Issuer: CN=Sonera Class2 CA,O=Sonera,C=FI
# Serial Number: 29 (0x1d)
# Subject: CN=Sonera Class2 CA,O=Sonera,C=FI
# Not Valid Before: Fri Apr 06 07:29:40 2001
# Not Valid After : Tue Apr 06 07:29:40 2021
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Sonera Class 2 Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
# Certificate "Camerfirma Chambers of Commerce Root"

# Issuer: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
# Serial Number: 0 (0x0)
# Subject: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
# Not Valid Before: Tue Sep 30 16:13:43 2003
# Not Valid After : Wed Sep 30 16:13:44 2037

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Chambers of Commerce Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT_MULTILINE_OCTAL
\067\367\155\346\007\174\220\305\261\076\223\032\267\101\020\264
\362\344\232\047
END

CKA_ISSUER_MULTILINE_OCTAL
\060\071\061\013\060\006\003\125\004\006\023\002\106\111\061
\017\060\015\006\003\125\004\012\023\006\123\157\156\145\162\141
\061\031\060\027\006\003\125\004\003\023\020\123\157\156\145\162
\141\040\010\13\154\141\163\062\040\103\101
END

CKA_SERIAL_NUMBER_MULTILINE_OCTAL
\002\001\035
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Trust for Certificate "Camerfirma Chambers of Commerce Root"
# Issuer: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
# Serial Number: 0 (0x0)
# Subject: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
# Not Valid Before: Tue Sep 30 16:13:43 2003
# Not Valid After: Wed Sep 30 16:13:44 2037
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Chambers of Commerce Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\156\072\125\244\031\014\031\134\223\204\074\300\333\162\056\061
\060\141\360\261
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\260\001\356\024\331\257\051\030\224\166\216\361\151\063\052\204
END
CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101
\070\062\067\064\063\062\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\161\160\072\057\057\167\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\042\060
\040\006\003\125\004\003\023\031\103\150\141\155\142\145\162\163
\040\157\146\040\103\157\155\155\145\162\143\145\040\122\157\157
\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\000\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Camerfirma Global Chambersign Root"
#
# Issuer: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
A82743287,C=EU
# Serial Number: 0 (0x0)
# Subject: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
A82743287,C=EU
# Not Valid Before: Tue Sep 30 16:14:18 2003
# Not Valid After : Wed Sep 30 16:14:18 2037
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Global Chambersign Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\175\061\130\060\011\1006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\230\361\101\103\040\103\141\155
\145\162\146\151\162\155\141\140\012\230\101\104\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\104\060
\036\006\003\125\004\003\023\027\107\154\157\142\141\154\040\103
\150\141\155\142\145\162\163\151\147\156\040\122\157\157\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\175\061\130\060\011\1006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\230\361\101\103\040\103\141\155
\145\162\146\151\162\155\141\140\014\231\101\104\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\104\060
\036\006\003\125\004\003\023\027\107\154\157\142\141\154\040\103
\150\141\155\142\145\162\163\151\147\156\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\305\060\202\003\255\240\003\002\001\002\002\001\000
\060\015\006\001\052\206\110\206\367\015\001\001\005\005\000\060
\175\061\013\060\011\006\003\125\004\006\023\002\105\125\061\047
\060\045\006\003\255\004\012\230\361\101\103\040\103\141\155\145
\162\146\151\162\155\141\140\123\101\104\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\104\060
\036\006\003\125\004\003\023\027\107\154\157\142\141\154\040\103
\150\141\155\142\145\162\163\151\147\156\040\122\157\157\164
END
Open Source Used In HyperFlex HX Data Platform 4.5(2d) 12853
\155\142\145\162\163\151\147\156\056\157\162\147\057\143\160\163
\057\143\150\141\155\142\145\162\163\151\147\156\056\157\162\147\057\143\160\164
\056\150\156\154\046\015\006\011\052\206\110\206\367\015\001
\001\005\005\000\003\020\001\001\000\007\040\073\160\221\371\004\124
\047\221\34\155\35\35\37\160\150\177\141\135\34\101\145\117\062\361
\030\005\022\152\034\33\63\037\160\33\3\074\160\33\076\173\062\020\064\265\014
\154\241\121\174\245\364\217\377\32\24\33\025\027\32\050\004\32\1
\077\130\020\032\201\131\210\276\030\033\106\223\044\376\220\275
\046\242\060\055\35\027\220\111\164\226\030\036\66\025\342
\257\044\031\126\002\002\262\272\017\024\352\306\12\146\301\206
\105\125\213\276\222\276\234\244\004\307\111\074\236\350\051\172
\211\327\376\257\377\150\365\245\027\220\275\254\231\134\245\206
\127\011\147\106\33\32\026\302\106\361\34\44\251\12\035\217\321
\222\025\323\137\076\306\000\111\072\156\130\262\32\132\047\015
\045\310\062\370\040\021\231\151\175\062\063\110\224\24\14\133\353
\171\304\060\237\33\216\270\125\265\327\210\134\305\152\044\075
\262\232\005\003\211\236\007\357\314\024\16\164\075\156\162\316
\030\050\214\112\240\016\345\011\053\050\041\075\24\147\177
\001\212\005\213\223\276\241\300\377\370\034\016\147\244\071\111
\166\135\165\220\32\365\046\217\360
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Camerfirma Global Chambersign Root"
# Issuer: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
# Serial Number: 0 (0x0)
# Subject: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF

# Not Valid Before: Tue Sep 30 16:14:18 2003
# Not Valid After : Wed Sep 30 16:14:20 2037

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Global Chambersign Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\063\233\153\024\120\044\023\312\157\001\207\162\204\331\340\057
\303\322\330\351

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\305\346\173\277\006\320\117\103\355\304\172\145\212\373\153\031

CKA_ISSUER MULTILINE_OCTAL
\060\017\5\061\013\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\060\003\125\004\010\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\104\012\031\011\010\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\057\057\167\167\167\167\167\167\167\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\040\060
\036\006\003\125\004\003\023\027\107\154\157\142\141\154\040\103
\150\141\155\142\145\162\163\151\147\156\040\122\157\157\164
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "XRamp Global CA Root"
#
# Issuer: CN=XRamp Global Certification Authority,O=XRamp Security Services Inc,OU=www.xrampsecurity.com,C=US
# Subject: CN=XRamp Global Certification Authority,O=XRamp Security Services Inc,OU=www.xrampsecurity.com,C=US
# Not Valid Before: Mon Nov 01 17:14:04 2004
# Not Valid After : Mon Jan 01 05:37:19 2035
# Fingerprint (MD5): A1:0B:44:B3:CA:10:D8:00:6E:9D:0F:D8:0F:92:0A:D1

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "XRamp Global CA Root"

CKA_CLASS_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\175\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\036\060\003\125\004\013\023\025\167\167\167\056\170
\162\141\155\160\163\145\143\165\162\151\164\171\105\143\157\155
\161\144\060\042\006\003\125\004\012\023\033\130\123\141\155\160
\040\123\145\143\165\162\151\164\171\040\123\145\162\166\151\143
\145\163\040\111\156\143\061\055\060\053\006\003\125\004\003\023
\040\13\122\141\155\160\040\107\154\157\142\141\154\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "XRamp Global CA Root"
# Issuer: CN=XRamp Global Certification Authority,O=XRamp Security Services
Inc,OU=www.xrampsecurity.com,C=US
# Subject: CN=XRamp Global Certification Authority,O=XRamp Security Services
Inc,OU=www.xrampsecurity.com,C=US
# Not Valid Before: Mon Nov 01 17:14:04 2004
# Not Valid After : Mon Jan 01 05:37:19 2035

Open Source Used In HyperFlex HX Data Platform 4.5(2d) 12858
# Fingerprint (MD5): A1:0B:44:B3:CA:10:D8:00:6E:9D:0F:D8:0F:92:0A:D1

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "XRamp Global CA Root"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\270\001\206\321\353\234\206\245\101\004\317\060\124\363\114\122
\267\345\130\306
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\124\101\13\263\32\202\033\000\017\222\212\321
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\202\206\013\060\011\006\003\125\004\006\023\002\125\123
\061\036\060\034\006\003\125\004\013\023\025\167\167\167\056\170
\162\141\155\160\163\145\143\165\162\151\164\171\056\143\157\155
\061\044\060\042\006\003\125\004\012\023\033\130\122\141\155\160
\040\123\145\143\165\162\151\164\171\040\123\145\156\166\151\143
\145\63\040\111\156\130\055\060\053\006\003\125\004\003\023
\044\130\122\141\155\160\040\107\154\157\142\141\154\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\010\165\164\150
\157\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\120\224\154\354\030\352\325\234\115\325\227\357\165\217
\240\255
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Go Daddy Class 2 CA"
#
# Issuer: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.",C=US
# Serial Number: 0 (0x0)
# Subject: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.",C=US
# Not Valid Before: Tue Jun 29 17:06:20 2004
# Not Valid After : Thu Jun 29 17:06:20 2034

CS_CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CS_CKA_TOKEN CK_BBOOL CK_TRUE
CS_CKA_PRIVATE CK_BBOOL CK_FALSE
CS_CKA_MODIFIABLE CK_BBOOL CK_FALSE
OPEN SOURCE USED IN HYPERFLEX HX DATA PLATFORM 4.5(2d) 12861

# Trust for Certificate "Go Daddy Class 2 CA"
# Trust for Certificate "Starfield Class 2 CA"
# Issuer: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
# Serial Number: 0 (0x0)
# Subject: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
# Not Valid Before: Tue Jun 29 17:39:16 2004
# Not Valid After : Thu Jun 29 17:39:16 2034

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Class 2 CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\255\176\034\050\260\144\357\217\140\003\100\040\024\303\320\343\067\016\265\212
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\062\112\113\273\310\143\151\233\276\164\232\306\335\035\106\044
END

CKA_ISSUER MULTILINE_OCTAL
\060\150\061\013\060\001\125\004\006\023\002\125\123\061
\045\060\043\006\003\125\004\012\023\034\123\164\141\162\146\151
\145\154\143\150\156\157\154\157\147\151\145\163
\054\040\111\156\143\056\061\062\060\060\006\003\125\004\013\023
\051\123\164\141\162\146\151\145\154\144\040\103\154\141\163\163
\040\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Taiwan GRCA"
#
# Issuer: O=Government Root Certification Authority,C=TW
# Subject: O=Government Root Certification Authority,C=TW
# Not Valid Before: Thu Dec 05 13:23:33 2002
# Not Valid After : Sun Dec 05 13:23:33 2032

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Taiwan GRCA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\077\061\013\060\003\125\004\006\023\002\124\127\061
\060\060\056\006\003\125\004\012\014\047\107\157\166\145\162\156
\155\145\156\164\040\122\157\157\164\040\013\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\077\061\013\060\001\100\003\125\004\006\023\002\124\127\061
\060\060\056\006\003\125\004\012\014\047\107\157\166\145\162\156
\155\145\156\164\040\122\157\157\164\040\013\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\037\235\131\132\327\057\032\006\104\245\001\010\151\343
\136\366
END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\162\060\020\003\132\240\003\002\001\002\002\020\037
\235\131\132\327\057\032\006\104\245\001\010\151\343\136\366\060
\015\006\01\052\206\110\020\037\150\010\001\005\005\000\060\077
\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\056\006\003\125\004\012\014\047\107\157\166\145\162\156\155\145
\156\146\040\012\122\157\157\164\040\013\145\162\164\151\146\151\143
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\060
\036\027\015\060\062\061\062\060\065\061\063\062\063\063\063\132
\027\015\063\062\061\062\060\065\061\063\062\063\063\063\132
\077\061\013\060\001\110\003\125\004\006\023\002\124\127\061
\060\056\006\003\125\004\012\014\047\107\157\166\145\162\156\155
\145\156\164\040\012\122\157\157\164\040\013\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\060\020\002\042\060\015\006\011\052\206\110\020\037\150
\001\005\000\003\120\002\017\000\006\020\002\012\002\200\020\001
\000\202\034\025\207\034\034\024\022\165\250\173\367\316\133\131\123\111
\321\206\022\010\124\354\234\362\347\106\366\210\033\174\351\124
\337\14\107\066\244\033\001\034\177\036\272\122\125\303\005\321
\041\343\332\044\077\11\005\337\237\056\241\224\347\054\034\223
\321\277\033\001\020\172\032\313\162\247\365\012\041\166\167\377\251
\267\036\163\224\117\106\367\020\110\067\372\250\131\111\135\152


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\205\100\025\376\036\266\145\077\305\113\332\176\265\172\065\051
\243\056\172\230\040\042\243\364\175\047\116\055\352\264\164\074
\351\017\244\063\017\020\274\023\000\326\345\016\323\277\265
\022\242\341\110\043\300\334\010\010\156\141\162\271\125\203\034\044
\036\346\135\007\347\037\040\076\317\147\310\347\254\060\155\047
\113\150\156\113\052\134\002\010\064\333\370\166\344\147\243\046
\234\077\242\062\302\112\305\201\030\061\020\126\252\204\357\055
\012\377\270\037\167\322\277\245\130\240\042\344\327\113\221\165
\215\11\200\023\016\155\313\123\161\362\257\366\227\205\227
\271\332\125\006\271\044\356\327\306\070\036\143\033\022\073\225
\341\130\254\362\337\204\325\137\231\057\15\125\133\346\070\333
\056\077\162\351\10\205\313\273\051\221\270\036\070\125\271\1363
\262\304\060\231\043\116\135\362\110\241\022\014\334\022\220\011
\220\124\221\003\074\107\345\325\311\145\340\267\113\175\354\107
\323\263\013\076\255\236\320\164\000\016\353\275\121\255\300\336
\054\300\030\115\237\365\330\013\247\371\216\337\140\333\234\246
\131\120\165\043\151\163\223\262\371\374\002\232\107\346\161\136
\020\002\356\047\214\204\377\254\105\015\203\134\203\062\340\045
\245\209\054\174\364\022
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Taiwan GRCA"
# Issuer: O=Government Root Certification Authority,C=TW
# Subject: O=Government Root Certification Authority,C=TW
# Not Valid Before: Thu Dec 05 13:23:33 2002
# Not Valid After : Sun Dec 05 13:23:33 2032
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Taiwan GRCA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\364\213\021\277\336\253\276\224\124\040\161\134\61\01\336\153\276
\210\053\100\271
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\067\205\104\123\062\105\037\040\360\363\225\341\045\304\103\116
END

CKA_ISSUER MULTILINE_OCTAL
\060\077\061\013\060\001\100\060\003\125\004\006\023\002\124\127\061
\060\060\056\006\003\125\004\012\014\047\107\157\166\145\162\156
\155\145\156\164\040\122\157\157\164\040\103\145\162\164\151\146
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Open Source Used In HyperFlex HX Data Platform 4.5(2d) 12868
# Certificate "DigiCert Assured ID Root CA"

# Issuer: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:0c:e7:e0:e5:17:d8:46:fc:8e56:0fc:1f0:30:39
# Subject: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After : Mon Nov 10 00:00:00 2031

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root CA"

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_SUBJECT MULTILINE_OCTAL
060145060101000600311250040060230021125123061
02506002300600311250040120230140104151114711511031145
16216404011111561430610310600270060031125004013023
02016716716705614415114711511431451621640561431157
1550610404060042006003112500400302303310411511471151
10311451621640401011163163165162145144040111104040
122115711571640401031101

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
002020037235113113232705730200610424520001011511343
1363366

END
020102002014347340345027330106337621734541403740333360
0600071
END

CKA_VALUE MULTILINE_OCTAL
06002003032670602020022372240030302001020020200014
34373435403527303106376217345414037403333600600071060
015000601105220611102063670150011001005005000600145
06011030600110000031250040060023002125123061025060
023000603125004012023014010141147151103145162164
040111115614306103106002706003125004013023020167
1671670561441511147151143145162164056143157155061
04040060420006312500400302303031041147151103145
1621640401011163163165162145144040111104040122157
1571640401031010060360270101506060601061060106060
06000600060600132027010506301101061060106060060
0600600606001320601450611013600111006003125004006
0230021251230610250600230060031250040120230140104
1511147151103145162164040111156143061031060027006
003125004013023020167167167056144151147151143145
16216405614315715506104006040200063125004003023
0331041147151103145162164040111163163165162164
144040111104040122157157164040103101060202001042
0600101500601105220611102063670150011001005005000600145
0200101700060020200101202001010001255016202
31634410320013426112073632671403711611022245256334
046224120125236431636504007160501301400143702001332
25110252250621410742652611050204212212334237012014
203021721272202054212347117112313406120405235366017
230062066116314363350742502423571523730411362122
1411337323704032703734212611331376300144322022133137
1371300300653274107315214012663711131773241260070076
3010333303214063331330057030376050017263247203326
303115610430014110652206263713112341213166155327361
24211301503377013162332326140320126220065306170
125207040241317345515501231011111740612300631154042
3512073202621322422722023020213355071027235231072
162214346372244331325027061165256205175042256077
00110610626366050174130261332344417227034176034016
1620264222426126263275262227355525247360267305250
07722502623023772411226353010137030167117802003001
00100012431430601410600160060031250350170001001377
009400480003002001206060017006003125035023001001377
009400506000300100137706003506003125035016004026
00402410535324225736422231320261055121213247247
041225363155130101706003706003125035043004030060
02620020410535324225736422231320261055121213247
1247041123536315531001706001506011052206110206367
0150010010050050000003220200100000242016274337342
# Trust for Certificate "DigiCert Assured ID Root CA"
# Issuer: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:0c:e7:e0:e5:17:d8:fe:8f:e5:60:fc:1b:f0:30:39
# Subject: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After : Mon Nov 10 00:00:00 2031
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\005\143\270\143\015\142\327\132\273\131\023\125\036\113\337\265\250
\231\262\115\103
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\207\316\013\173\052\016\111\000\341\130\161\233\067\250\223\162
END
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\001\100\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\011\115\164\306\013\160\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\010\163\163\165\162\145\144\040\111\104\040
# Certificate "DigiCert Global Root CA"

# Issuer: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After : Mon Nov 10 00:00:00 2031

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\010\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\156\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\006\003\060\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\141\061\13\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\010\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\156\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\006\003\060\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\010\073\340\126\220\102\106\261\124\165\152\31\13\1221

Open Source Used In HyperFlex HX Data Platform 4.5(2d) 12872
# Trust for Certificate "DigiCert Global Root CA"
# Issuer: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After : Mon Nov 10 00:00:00 2031

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTCK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTCK_BBOOL CK_FALSE

# Open Source Used In HyperFlex HX Data Platform 4.5(2d) 12874

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTCK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTCK_BBOOL CK_FALSE
# Trust for Certificate "DigiCert High Assurance EV Root CA"
# Issuer: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After : Mon Nov 10 00:00:00 2031

END

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert High Assurance EV Root CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\137\267\356\006\063\342\131\333\255\014\114\232\346\323\217\032
\141\307\334\045

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\324\164\336\127\134\071\262\323\234\205\203\305\300\145\111\121

END

CKA_ISSUER MULTILINE_OCTAL
\060\154\066\101\036\060\01\100\06\00\03\125\00\4\00\06\02\3\02\125\123\061
\025\060\02\3\00\06\00\03\125\00\4\01\2\3\01\14\01\151\147\151\103\145
\162\164\04\11\11\156\143\06\10\06\02\7\06\00\03\125\00\4\01\3\023
\020\167\16\167\05\14\14\151\147\151\143\143\145\162\164\05\143\157
\155\061\05\3\00\06\00\05\1\06\00\03\125\00\4\03\03\2\4\04\151\147\151
\103\145\162\164\04\11\151\147\150\04\01\10\163\165\162\141
\156\143\145\04\01\15\126\04\12\215\157\157\164\04\01\03\101
# Certificate "DST Root CA X3"

# Issuer: CN=DST Root CA X3,O=Digital Signature Trust Co.
# Subject: CN=DST Root CA X3,O=Digital Signature Trust Co.
# Not Valid Before: Sat Sep 30 21:12:19 2000
# Not Valid After : Thu Sep 30 14:01:15 2021
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DST Root CA X3"
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\077\061\044\060\042\006\003\125\004\012\023\033\104\151\147 \151\164\141\154\040\123\151\147\156\141\164\165\162\145\040\124 \162\165\163\164\040\103\157\056\061\027\060\025\006\003\125\004 \003\023\016\104\123\124\040\122\157\157\164\040\103\101\040\130 \063 END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\002\254\134\046\152\013\100\233\217\013\171\362\256\106 \045\167 END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\112\060\020\002\062\240\003\002\001\002\002\020\104 \257\260\200\326\243\047\272\211\106\071\120\056\370\100\153\060
# Trust for Certificate "DST Root CA X3"

# Issuer: CN=DST Root CA X3,O=Digital Signature Trust Co.
# Subject: CN=DST Root CA X3,O=Digital Signature Trust Co.
# Not Valid Before: Sat Sep 30 21:12:19 2000
# Not Valid After : Thu Sep 30 14:01:15 2021

# Certificate "SwissSign Platinum CA - G2"

# Issuer: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
# Serial Number: 4e:b2:00:67:0c:03:5d:4f
# Subject: CN=SwissSign Platinum CA - G2, O=SwissSign AG, C=CH
# Not Valid Before: Wed Oct 25 08:36:00 2006
# Not Valid After: Sat Oct 25 08:36:00 2036

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Platinum CA - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\111\061\013\060\011\006\003\125\004\006\023\002\010\03\110\061\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123\151\147\156\040\120\154\141\164\151\156\165\155\040\013\010\040\055\040\010\07\062
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\111\061\013\060\011\006\003\125\004\006\023\002\010\03\110\061\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123\151\147\156\040\120\154\141\164\151\156\165\155\040\013\010\040\055\040\010\07\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\200\010\116\262\200\000\147\014\003\013\151\117
END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\301\060\202\003\325\124\003\002\001\002\002\010\116\262\200\000\147\014\003\013\151\117
\015\001\010\005\005\000\006\111\016\013\060\011\006\003\125\004\006\023\002\010\03\110\061\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123\151\147\156\040\120\154\141\164\151\156\165\155\040\013\010\040\055\040\010\07\062
END

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# Trust for Certificate "SwissSign Platinum CA - G2"
# Issuer: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
# Serial Number:4e:b2:00:67:0c:03:5d:4f
# Subject: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
# Not Valid Before: Wed Oct 25 08:36:00 2006
# Not Valid After : Sat Oct 25 08:36:00 2036

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Platinum CA - G2"

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Certificate "SwissSign Gold CA - G2"

# Issuer: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Serial Number:00:bb:40:1c:43:f5:5e:4f:b0
# Subject: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Not Valid After : Sat Oct 25 08:30:35 2036
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Gold CA - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Trust for Certificate "SwissSign Gold CA - G2"
# Issuer: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Serial Number:00:bb:40:1c:43:f5:5e:4f:b0
# Subject: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Not Valid After : Sat Oct 25 08:30:35 2036
# Trust for Certificate "SwissSign Silver CA - G2"
# Issuer: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Serial Number:4f:1b:d4:2f:54:bb:2f:4b
END

# Trust for Certificate "SwissSign Silver CA - G2"
# Issuer: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Serial Number:4f:1b:d4:2f:54:bb:2f:4b
# Subject: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Not Valid After : Sat Oct 25 08:32:46 2036

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "SwissSign Silver CA - G2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\233\252\345\237\126\356\041\313\103\325\056\156 \156
# Certificate "GeoTrust Primary Certification Authority"

# Issuer: CN=GeoTrust Primary Certification Authority,O=GeoTrust Inc.,C=US
# Subject: CN=GeoTrust Primary Certification Authority,O=GeoTrust Inc.,C=US
# Not Valid Before: Mon Nov 27 00:00:00 2006
# Not Valid After : Wed Jul 16 23:59:59 2036

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Primary Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\041\060\037\006\003\125\004\003\023
\030\123\167\151\163\163\123\147\156\040\123\151\154\166\145
\162\040\103\101\040\055\040\107\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\117\033\324\057\124\273\057\113
END

CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\041\060\037\006\003\125\004\003\023
\030\123\167\151\163\163\123\147\156\040\123\151\154\166\145
\162\040\103\101\040\055\040\107\062
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

CKA_ID UTF8 "0"
# Trust for Certificate "GeoTrust Primary Certification Authority"
# Issuer: CN=GeoTrust Primary Certification Authority,O=GeoTrust Inc.,C=US
# Subject: CN=GeoTrust Primary Certification Authority,O=GeoTrust Inc.,C=US
# Not Valid Before: Mon Nov 27 00:00:00 2006
# Not Valid After : Wed Jul 16 23:59:59 2036

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Primary Certification Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\062\207\244\021\216\033\367\026\031\136\010\067\103\025\132\017\51\317\067\346\027

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\002\046\303\001\136\010\060\067\103\251\132\017\51\317\067\346\027
END

CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\011\100\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\061\060\057\006\033\125\004\003
\023\050\107\145\157\124\162\165\163\164\040\120\162\151\155\141
\162\171\040\103\145\162\164\151\146\151\143\141\164\151\157\156
# Certificate "thawte Primary Root CA"

# Issuer: CN=thawte Primary Root CA,OU="(c) 2006 thawte, Inc. - For authorized use only",OU=Certification Services Division,O="thawte, Inc.",C=US
# Subject: CN=thawte Primary Root CA,OU="(c) 2006 thawte, Inc. - For authorized use only",OU=Certification Services Division,O="thawte, Inc.",C=US
# Not Valid Before: Fri Nov 17 00:00:00 2006
# Not Valid After : Wed Jul 16 23:59:59 2036
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "thawte Primary Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\101\165\164\150\157\162\151\164\171
END
CKA_SERIALNUMBER MULTILINE_OCTAL
\002\020\030\254\265\152\375\151\266\025\072\143\154\257\332\372
\304\241
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

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"\116\013\051\365\076\204\240\001\361\234\253\370\034\176\211\244
\350\241\330\161\145\015\243\121\173\356\274\322\242\140\015\271
\133\235\337\273\237\412\131\030\125\232\206\235\056\351\100\4\350
\142\207\336\053\130\103\237\116\301\111\144\40\363\035\171\207\130\272
\112\173\121\150\007\035\034\235\112\306\325\057\221\131\144\161
\162\034\305\300\147\353\062\374\222\134\224\332\205\300\233
\277\123\175\053\011\364\214\235\212\103\227\152\122\313\336\011
\066\244\167\330\173\207\120\104\343\250\076\165\051\151\137\070\111
\046\036\011\125\240\005\173\000\055\353\350\047\205\311\376\114\1375
\176\346\174\227\035\325\235\002\003\001\000\000\01\243\110\206\0100
\060\017\000\060\031\250\035\023\001\010\377\004\005\060\000\000\001
\377\060\160\006\003\125\035\017\001\001\137\000\004\000\003\002\0001
\006\060\035\006\003\125\035\016\004\042\006\004\024\173\133\105\317
\257\316\313\171\237\375\061\222\302\152\266\363\106\353\127\110\120
\060\015\060\006\111\052\206\110\026\367\015\001\001\005\000\000\003
\020\001\001\000\071\021\300\113\263\221\62\232\221\374\360\351\147\324
\015\156\105\276\125\350\022\322\161\003\077\355\332\045\260\035
\127\313\036\072\216\240\114\354\120\166\350\144\162\014\244\251
\361\127\021\332\362\207\024\273\062\345\101\021\300\167\331\1263
\140\253\353\039\332\325\321\156\104\104\251\124\000\135\412\142\035
\167\72\130\142\216\110\111\174\234\073\127\021\254\255\163\067\216
\057\170\134\220\150\073\331\140\140\346\374\007\075\042\040\040\027
\304\367\026\351\130\043\300\162\371\101\163\174\337\026\057\250\251
\076\375\152\047\266\241\353\132\272\230\037\325\343\115\144\012
\235\023\310\141\272\365\071\034\020\272\270\275\173\042\177\366
\376\254\100\171\345\254\020\157\075\217\033\171\166\213\304\067
\263\041\030\204\345\066\000\353\143\040\231\271\151\351\176\063\004
\273\101\131\030\000\237\110\143\040\236\201\136\102\323\326\077
\054\166\332\143\234\131\335\217\246\341\101\240\056\101\136\7056
\225\107\317\274\375\063\363\360\131\111\176\176\221\053\201\107
\302\047\060\356\247\202\135\067\217\134\071\053\344\004\360\173
\215\126\214\150
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "thawte Primary Root CA"
# Issuer: CN=thawte Primary Root CA,OU="(c) 2006 thawte, Inc. - For authorized use only",OU=Certification Services Division,O="thawte, Inc.",C=US
# Subject: CN=thawte Primary Root CA,OU="(c) 2006 thawte, Inc. - For authorized use only",OU=Certification Services Division,O="thawte, Inc.",C=US
# Not Valid Before: Fri Nov 17 00:00:00 2006
# Not Valid After : Wed Jul 16 23:59:59 2036
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "thawte Primary Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\221\306\326\356\076\212\310\143\204\345\110\302\231\051\134\165
\154\201\173\201
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\214\312\334\013\042\316\365\276\162\254\101\032\021\250\330\022
END
CKA_ISSUER MULTILINE_OCTAL
\060\025\060\023\066\003\125\004\012\023\014\164\150\141\167\164
\145\054\040\111\156\143\056\061\050\060\046\006\003\125\004\013
\023\037\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\123\145\162\166\151\143\145\163\040\104\151\166\151\163\151\157
\156\061\107\060\066\006\003\125\004\013\023\057\050\143\051\040
\062\060\060\060\040\164\150\141\167\164\145\054\040\111\156\143
\056\040\055\040\106\157\162\160\141\165\164\150\157\162\151\172
\145\144\040\165\163\145\040\157\156\154\171\061\037\060\035\006
\003\125\004\003\023\026\164\150\141\167\164\145\040\120\162\151
\155\141\162\171\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\064\116\325\127\040\325\355\354\111\136\057\316\067\333
\053\155
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "VeriSign Class 3 Public Primary Certification Authority - G5"
#
# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G5,OU="(c) 2006 VeriSign, Inc. - For authorized use only",O=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=VeriSign Class 3 Public Primary Certification Authority - G5,OU="(c) 2006 VeriSign, Inc. - For authorized use only",O=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Wed Nov 08 00:00:00 2006
# Not Valid After : Wed Jul 16 23:59:59 2036
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "VeriSign Class 3 Public Primary Certification Authority - G5"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\027\060\025\060\023\012\016\016\015\014\013\012\011\010\009\008\007\006\005\004\003\002\001\000
\023\022\021\020\019\018\017\016\015\014\013\012\011\010\009\008\007\006\005\004\003\002\001\000
\015\014\013\012\011\010\009\008\007\006\005\004\003\002\001\000
\002\001\000
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\027\060\025\060\023\012\016\016\015\014\013\012\011\010\009\008\007\006\005\004\003\002\001\000
\023\022\021\020\019\018\017\016\015\014\013\012\011\010\009\008\007\006\005\004\003\002\001\000
\015\014\013\012\011\010\009\008\007\006\005\004\003\002\001\000
\002\001\000
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\030\332\321\236\046\350\273\112\041\130\315\314\153\073\112
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\323\060\202\003\273\240\003\002\001\000\002\020\030
\332\321\236\046\175\350\273\112\041\130\315\314\153\073\112
\015\006\001\105\022\061\102\066\367\015\000\001\005\005\000\000\000
\312\061\103\060\001\006\000\003\125\004\006\023\002\125\013\012
\060\202\025\006\003\125\004\001\020\023\016\261\146\162\151\123\151\147
\156\054\040\111\156\143\056\061\103\076\060\350\006\003\125
\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\161\175\162\153\061\072\060\070\006\000
\125\004\013\023\061\050\143\051\040\062\060\060\066\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\163\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\165\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\065
END
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "VeriSign Class 3 Public Primary Certification Authority - G5"
# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G5,OU="(c) 2006 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=VeriSign Class 3 Public Primary Certification Authority - G5,OU="(c) 2006 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Wed Nov 08 00:00:00 2006
# Not Valid After : Wed Jul 16 23:59:59 2036
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "VeriSign Class 3 Public Primary Certification Authority - G5"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\116\266\325\170\111\233\304\317\137\130\036\255\126\270\075\233
\147\104\245\345
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\313\027\344\061\147\076\342\011\137\61\105\127\223\363\012\372\034
END
# Certificate "SecureTrust CA"

# Issuer: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Serial Number: 0c:f0:8e:5c:08:16:a5:ad:42:7f:f0:eb:27:18:59:d0
# Subject: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Not Valid Before: Tue Nov 07 19:31:18 2006
# Not Valid After : Mon Dec 31 19:40:55 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureTrust CA"

CKA_CERTIFICATE_TYPE CK_Certificate_TYPE CKC_X_509

END
\377\060\035\006\003\125\035\016\064\004\026\004\024\102\062\266\026
\372\004\375\036\135\113\172\030\375\367\114\110\000\351\132\103\257
\060\064\006\003\032\035\030\037\004\055\056\060\053\060\051\124\004\072\240
\045\200\043\151\016\164\164\160\072\057\057\143\162\154\056\163\145
\143\165\162\145\164\162\165\163\164\056\143\157\155\057\123\124
\103\101\056\143\162\154\060\020\060\011\053\006\001\100\040\001\202
\067\025\001\004\030\002\001\000\060\069\150\156\110\120
\367\015\001\001\005\005\000\003\020\001\010\000\060\355\117\112
\341\110\072\122\162\163\226\246\243\115\030\014\273\121\073\167
\351\123\352\323\237\134\340\095\045\173\015\132\133\342\160\120
\262\224\005\024\126\111\307\215\101\007\022\163\224\176\014\043
\041\375\274\020\017\140\020\132\162\365\230\016\254\354\271\177
\335\172\157\135\323\034\036\1377\210\005\151\102\251\100\161\310
\267\254\046\350\056\264\214\015\277\161\133\270\261\037\231\274
\174\041\124\053\344\130\242\273\127\051\125\236\251\124\303\104\046
\017\231\056\010\260\357\375\151\137\231\103\011\121\343\247\237
\053\111\066\064\173\044\263\170\111\042\250\272\440\066\046\306\266
\141\122\066\137\140\147\331\234\305\050\164\013\347\147\043\322
\010\037\421\035\125\262\123\177\341\060\364\067\176\375\306\062\332
\055\236\104\060\066\154\356\007\336\322\064\374\322\377\100\366
\113\364\146\106\006\124\246\362\062\012\143\046\600\153\233\321
\334\213\107\272\341\271\135\142\320\242\240\364\147\005\170\051
\143\032\157\034\026\370\036\014\243\232\261\067\264\215\345\050
\113\035\236\054\302\270\150\274\355\002\356\061
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "SecureTrust CA"
# Issuer: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Serial Number:0c:f0:8e:5c:08:16:a5:ad:45:7f:eb:27:d0
# Subject: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Not Valid Before: Tue Nov 07 19:31:18 2006
# Not Valid After : Mon Dec 31 19:40:55 2029

END

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureTrust CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\207\202\306\303\004\065\073\317\322\226\222\322\131\076\175\104
\331\064\377\021
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\334\062\303\247\155\045\127\307\150\011\235\352\055\251\242\321
END
CKA_ISSUER MULTILINE_OCTAL
\060\101\006\101\013\060\001\000\006\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\027\060\025\006\003\125\004\003\023\016\123\145\143\165
\162\145\124\162\165\163\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\014\360\216\134\010\026\245\255\102\177\360\353\047\030
\131\320
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "Secure Global CA"
#
# Issuer: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# Subject: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# Not Valid Before: Tue Nov 07 19:42:28 2006
# Not Valid After : Mon Dec 31 19:52:06 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Secure Global CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\112\006\101\013\060\001\011\006\003\125\004\006\027\002\125\123\061
\040\060\036\006\003\125\004\120\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165
\162\145\040\107\154\157\142\141\154\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER_MULTILINE_OCTAL
\060\112\006\101\013\060\001\011\006\003\125\004\006\027\002\125\123\061
\040\060\036\006\003\125\004\120\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165
\162\145\040\107\154\157\142\141\154\040\103\101
END
Open Source Used In HyperFlex HX Data Platform 4.5(2d) 12906

# Trust for Certificate "Secure Global CA"
# Issuer: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# Subject: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# Not Valid Before: Tue Nov 07 19:42:28 2006
# Not Valid After : Mon Dec 31 19:52:06 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Secure Global CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\072\104\163\132\345\201\220\037\044\206\141\106\036\073\234\304
\137\365\072\033
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\137\364\047\105\324\355\334\145\026\111\155\075\332\277\156\336
END
CKA_ISSUER_MULTILINE_OCTAL
\060\112\061\101\060\001\1\006\003\125\004\006\023\002\125\123\061
\040\060\036\000\003\125\004\012\230\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165
\162\145\040\107\154\157\142\141\154\040\103\101
Certificate "COMODO Certification Authority"

Issuer: CN=COMODO Certification Authority, O=COMODO CA Limited, L=Salford, ST=Greater Manchester, C=GB
Serial Number: 4e:81:2d:8a:82:65:e0:0b:02:ee:3e:35:02:46:e5:3d
Subject: CN=COMODO Certification Authority, O=COMODO CA Limited, L=Salford, ST=Greater Manchester, C=GB
Not Valid Before: Fri Dec 01 00:00:00 2006
Not Valid After: Mon Dec 31 23:59:59 2029

Certificate Class CK_OBJECT_CLASS CKC_X_509

Subject:

Issuer:

Certificate Type CK_CERTIFICATE

Certificate Type CK_CERTIFICATE_TYPE CKC_X_509

Subject Multiline Octal:

Issuer Multiline Octal:

Certificate ID UTF8 "0"

Issuer Multiline Octal:

Open Source Used In HyperFlex HX Data Platform 4.5(2d) 12807
<table>
<thead>
<tr>
<th>CKA_SERIAL_NUMBER</th>
<th>MULTILINE_OCTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>\002\020\116\201\055\212\202\145\340\013\002\356\076\065\002\106\345\075\060\015\006\001\010\052\206\102\063\367\006\226\360\051\120\231\256\333\073\241\127\260\164\121\161\131\135\355\102\221\115\101\376\251\310 \033\152\206\167\104\273\131\146\227\120\361\264\324\054\160\104</td>
<td>\010\020\001\042\060\015\006\011\052\206\110\101\062\306\063\065\071\065</td>
</tr>
</tbody>
</table>
END

# Trust for Certificate "COMODO Certification Authority"
# Issuer: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number:4e:81:2d:8a:82:65:e0:0b:02:ee:3e:35:02:46:ce:5:3d
# Subject: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After: Mon Dec 31 23:59:59 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
# Certificate "Network Solutions Certificate Authority"

# Issuer: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Subject: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After : Mon Dec 31 23:59:59 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Network Solutions Certificate Authority"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
\006\001\233\042\260\010\5\365\011\135\156\021\105\173\075\073\046\214
\164\032\345\322\322\211\175\262\021\132\343\373\130\062\042\232\200\0311
\334\375\014\351\117\136\003\227\160\073\000\024\207\047\160\070
\251\116\156\263\047\166\230\121\134\000\53\343\034\125\032\325\025
\042\204\375\012\65\232\026\030\50\200\250\364\273\153\060\217\057\106
\002\224\262\101\140\042\340\323\000\023\000\11\000\01\123\012\127\060
\201\224\060\035\006\000\125\035\016\000\042\060\04\204\106\0311
\373\000\327\116\230\332\207\252\052\320\247\056\261\100\066\1247
\114\060\016\000\003\125\035\017\100\110\1177\000\040\000\030\020\001
\006\060\001\170\006\003\125\035\023\001\000\1377\000\040\000\060\000\3001
\001\1377\060\012\200\060\003\125\035\037\004\113\060\111\060\107\240
\105\240\103\206\011\115\016\164\161\007\205\057\143\162\154\056
\156\145\164\163\157\154\163\163\154\056\143\157\155\057\116\145
\164\167\157\162\153\123\157\154\165\161\151\157\156\163\103\145
\162\164\151\114\161\151\143\141\164\145\101\165\164\150\157\162\151
\164\171\056\143\162\154\060\150\056\011\052\206\11\102\063\367\015
\001\001\005\005\000\000\03\202\200\01\001\000\273\256\113\347\267\127
\353\177\725\020\055\267\163\107\205\152\301\134\245\035\344\347\074
\351\134\131\145\167\265\172\133\132\215\045\066\340\172\227\056
\070\300\127\140\200\230\000\062\203\237\271\166\172\156\120\340\272
\120\050\374\105\314\030\260\231\122\512\101\163\354\035\270\210\377
\207\120\034\202\230\234\334\062\200\274\013\107\310\030\061
\357\231\147\062\200\011\072\204\117\191\041\151\134\133\161\360\042\256
\002\226\504\352\212\033\177\030\145\054\311\362\143\134\215\007
\376\174\161\103\37\153\060\344\152\036\005\367\005\150\300\152\022
\313\056\136\141\132\256\050\323\176\302\264\146\221\046\137\074
\056\044\137\131\130\017\353\050\354\257\021\226\363\334\173\157
\300\024\271\012\362\123\167\263\140\136\256\256\050\332\065\054\157
\064\105\332\046\341\336\354\133\117\047\153\026\174\275\104\004
\030\022\263\211\171\072\020\161\075\172\242\026\116\365\000\1315
\244\154\145\150\241\111\116\134\103\113\130\274\066\147\154\245
\224\265\324\314\271\275\152\065\126\041\133\330\033\135\373\131
\244\140\114\260\125\240\240\173\127\262
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Network Solutions Certificate Authority"
# Issuer: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Subject: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After : Mon Dec 31 23:59:59 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
# Certificate "COMODO ECC Certification Authority"

# Issuer: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Subject: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Thu Mar 06 00:00:00 2008
# Not Valid After: Mon Jan 18 23:59:59 2038

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Network Solutions Certificate Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\164\370\243\303\357\347\263\220\006\113\203\220\074\041\144\140
\040\345\337\316
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\323\363\246\026\300\372\153\035\131\261\055\226\115\016\021\056
END
CKA_ISSUER MULTILINE_OCTAL
\060\142\061\013\060\001\006\000\03\125\004\000\023\002\125\123\061
\041\060\037\006\003\125\004\012\023\030\116\145\164\167\157\162
\153\040\123\157\154\165\164\151\157\156\163\040\114\056\114\056
\103\056\061\060\060\056\006\003\125\004\003\023\047\116\145\164
\167\157\162\153\040\123\157\154\165\164\151\157\156\163\040\103
\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157
\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\127\313\063\157\153\125\123\061
\150\340
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Open Source Used In HyperFlex HX Data Platform 4.5(2d) 12013
# Trust for Certificate "COMODO ECC Certification Authority"
# Issuer: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Subject: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Thu Mar 06 00:00:00 2008
# Not Valid After: Mon Jan 18 23:59:59 2038

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO ECC Certification Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\237\164\116\237\053\115\272\354\017\061\054\120\266\012\607\32\16
\055\223\303\021

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\174\142\377\164\235\061\123\136\150\112\325\170\252\036\277\043

CKA_ISSUER MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102
# Certificate "OISTE WISeKey Global Root GA CA"
#
# Issuer: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c) 2005,O=WISeKey,C=CH
# Subject: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c) 2005,O=WISeKey,C=CH
# Not Valid Before: Sun Dec 11 16:03:44 2005
# Not Valid After : Fri Dec 11 16:09:51 2037
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GA CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\061\033\060\031\006\003\125\004\010\002\22\010\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\006
\016\006\003\012\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\066\003\125\004\010\023\021\010\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\042\103\117\115\117\104\105\013\010
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
END
\# Trust for Certificate "OISTE WISeKey Global Root GA CA"
\# Issuer: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c) 2005,O=WISeKey,C=CH
\# Subject: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c) 2005,O=WISeKey,C=CH
\# Not Valid Before: Sun Dec 11 16:03:44 2005
\# Not Valid After : Fri Dec 11 16:09:51 2037

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GA CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\131\042\241\341\132\352\026\065\041\370\230\071\152\106\106\260
\104\033\017\251
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\274\154\121\063\247\351\132\146\143\124\025\162\033\041\222\223
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\212\061\013\006\003\125\004\006\023\002\103\110
\061\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113
\145\171\061\033\060\031\006\003\125\004\013\023\022\103\157\160
\171\162\151\147\150\164\040\050\143\051\040\062\060\060\065\061
\042\060\040\060\003\125\004\013\023\031\117\111\123\124\105\040
\106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
\163\145\144\061\050\060\046\006\003\125\004\003\023\037\117\111
\123\124\105\040\127\111\123\145\113\145\171\040\107\154\157\142
\141\154\040\122\157\157\164\040\107\101\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\101\075\162\307\364\153\037\201\103\175\361\322\050\124
\337\232
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Certigna"
#
# Issuer: CN=Certigna, O=Dhimyotis, C=FR
# Serial Number: 00:fe:dc:e3:01:0f:c9:48:ff
# Subject: CN=Certigna, O=Dhimyotis, C=FR
# Not Valid Before: Fri Jun 29 15:13:05 2007
# Not Valid After: Tue Jun 29 15:13:05 2027
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
Open Source Used In HyperFlex HX Data Platform 4.5(2d)
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Certigna"
# Issuer: CN=Certigna,O=Dhimyotis,C=FR
# Serial Number:00:fe:dc:e3:01:0f:c9:48:ff
# Subject: CN=Certigna,O=Dhimyotis,C=FR
# Not Valid Before: Fri Jun 29 15:13:05 2007
# Not Valid After : Tue Jun 29 15:13:05 2027
CKA_CLASS CKOBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\261\056\023\143\105\206\244\157\032\262\140\150\067\130\055\304
\254\375\224\227
# Certificate "Cybertrust Global Root"

# Issuer: CN=Cybertrust Global Root,O="Cybertrust, Inc"
# Serial Number:04:00:00:00:00:01:0f:85:aa:2d:48
# Subject: CN=Cybertrust Global Root,O="Cybertrust, Inc"
# Not Valid Before: Fri Dec 15 08:00:00 2006
# Not Valid After : Wed Dec 15 08:00:00 2021

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Cybertrust Global Root"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\073\061\030\060\026\006\003\125\004\012\023\017\103\171\142
\145\162\164\162\165\163\164\054\040\111\156\143\061\037\060\035
\006\003\125\004\003\023\026\103\171\142\145\162\164\162\165\163
\164\040\107\154\157\142\141\154\040\122\157\157\164
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\073\061\030\060\026\006\003\125\004\012\023\017\103\171\142
\145\162\164\162\165\163\164\054\040\111\156\143\061\037\060\035
\006\003\125\004\003\023\026\103\171\142\145\162\164\162\165\163
\164\040\107\154\157\142\141\154\040\122\157\157\164
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\376\334\343\001\017\311\110\377
END
CKA_NSS_MOZILLA_CA_POLICY CKBBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CKBBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CKBBOOL CK_FALSE

# Trust for Certificate "Cybertrust Global Root"
# Issuer: CN=Cybertrust Global Root,O="Cybertrust, Inc"
# Serial Number:04:00:00:00:00:00:00:01:0f:85:aa:2d:48
# Subject: CN=Cybertrust Global Root,O="Cybertrust, Inc"
# Not Valid Before: Fri Dec 15 08:00:00 2006
# Not Valid After: Wed Dec 15 08:00:00 2021
CKA_CLASS CKB_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CKBBOOL CK_TRUE
CKA_PRIVATE CKBBOOL CK_FALSE
CKA_MODIFIABLE CKBBOOL CK_FALSE
CKA_LABEL UTF8 "Cybertrust Global Root"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\137\103\345\261\277\170\214\254\303\377\360\042\053\314\064\306
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\126\234\112\207\343\151\100\200\167\352\274\343\164\377\360\341
END

CKA_ISSUER_MULTILINE_OCTAL
\060\073\061\030\060\026\006\003\125\004\012\023\017\103\171\142
\145\162\164\162\165\163\164\165\164\165\164\165\165\163
\164\160\177\154\157\142\141\154\140\122\157\157\164
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\000\001\172\205\252\055\110
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "ePKI Root Certification Authority"
#
# Issuer: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
# Serial Number: 15:c8:bd:65:47:5c:af:b8:97:00:5e:e4:06:d2:bc:9d
# Subject: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
# Not Valid Before: Mon Dec 20 02:31:27 2004
# Not Valid After : Wed Dec 20 02:31:27 2034
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\136\061\133\060\001\101\006\003\125\004\006\023\002\124\127\061\043\060\041\006\003\125\004\012\140\032\103\150\165\156\147\150\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040\114\146\144\056\061\052\060\050\060\003\125\004\013\014\041\114\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171 END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\200\205\310\275\145\107\134\257\270\227\000\136\344\006\322 \274\235 END
CKA_VALUE MULTILINE_OCTAL
\060\020\005\260\060\020\003\230\240\003\002\001\002\002\020\025 \310\275\145\107\134\257\270\227\000\136\344\006\322 \274\235 END

Open Source Used In HyperFlex HX Data Platform 4.5(2d) 12925
# Not Valid Before: Mon Dec 20 02:31:27 2004
# Not Valid After : Wed Dec 20 02:31:27 2034
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ePKI Root Certification Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\147\145\015\361\176\216\176\133\202\100\244\364\126\113\317\342
\075\151\306\360
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\033\056\000\312\046\006\220\075\255\376\157\025\150\323\153\263
END
CKA_ISSUER_MULTILINE_OCTAL
\060\136\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\000\03\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\052\060\050\006\003\125\004\013\014\041\145
\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\025\310\275\145\107\134\257\270\227\000\136\344\006\322
\274\235
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "certSIGN ROOT CA"
#
# Issuer: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Serial Number:20:06:05:16:70:02
# Subject: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Not Valid Before: Tue Jul 04 17:20:04 2006
# Not Valid After : Fri Jul 04 17:20:04 2031
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN ROOT CA"
Open Source Used In HyperFlex HX Data Platform 4.5(2d)  12929

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL 0600730610130600111006000312500040060230021122117061
02110600170060031250004012023010143145162164123111
10711606101316002706000031250004013023020143145162
1641231111071160401221171171124040103101
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL 0600730610130600111006000312500040060230021122117061
02110600170060031250004012023010143145162164123111
10711606101316002706000031250004013023020143145162
1641231111071160401221171171124040103101
CKA_SERIAL_NUMBER MULTILINE_OCTAL 02106000730610130600111006000312500040060230021122117061
02110600170060031250004012023010143145162164123111
10711606101316002706000031250004013023020143145162
1641231111071160401221171171124040103101
END
CKA_VALUE MULTILINE_OCTAL 002006040006050261160002 END
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL 0600730610130600111006000312500040060230021122117061
02110600170060031250004012023010143145162164123111
10711606101316002706000031250004013023020143145162
1641231111071160401221171171124040103101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL 0600730610130600111006000312500040060230021122117061
02110600170060031250004012023010143145162164123111
10711606101316002706000031250004013023020143145162
1641231111071160401221171171124040103101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL 02106000730610130600111006000312500040060230021122117061
02110600170060031250004012023010143145162164123111
10711606101316002706000031250004013023020143145162
1641231111071160401221171171124040103101
END
CKA_VALUE MULTILINE_OCTAL 002006040006050261160002 END
Open Source Used In HyperFlex HX Data Platform 4.5(2d)  12930

# Trust for Certificate "certSIGN ROOT CA"
# Issuer: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Serial Number:20:06:05:16:70:02
# Not Valid Before: Tue Jul 04 17:20:04 2006
# Not Valid After : Fri Jul 04 17:20:04 2031

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN ROOT CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL
Open Source Used In HyperFlex HX Data Platform 4.5(2d) 12831

# Certificate "GeoTrust Primary Certification Authority - G3"
#
# Issuer: CN=GeoTrust Primary Certification Authority - G3,OU=(c) 2008 GeoTrust Inc. - For authorized use only.O=GeoTrust Inc.,C=US
# Subject: CN=GeoTrust Primary Certification Authority - G3,OU=(c) 2008 GeoTrust Inc. - For authorized use only.O=GeoTrust Inc.,C=US
# Not Valid Before: Wed Apr 02 00:00:00 2008
# Not Valid After : Tue Dec 01 23:59:59 2037

CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_LABEL UTF8 "GeoTrust Primary Certification Authority - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END
\133\027\176\337\100\224\036\253\015\302\041\050\160\210\377\326
\046\154\154\140\004\045\116\251\167\157\357\277\224\110\336\267
\035\335\160\021\50\005\137\212\024\253\333\232\302\356\352\321\100\010
\151\51\42\070\035\126\006\305\003\107\121\040\031\374\173\020\013
\016\142\256\166\125\277\137\167\276\076\111\000\112\075\230\045
\003\366\044\132\035\256\033\321\11\352\171\13\345\266\263\070\377\272
\1\1\4\050\101\177\006\254\152\216\301\320\366\005\035\175\346\102
\2\063\44\245\132\107\002\003\001\100\001\123\102\060\100\006\000\17
\096\003\125\035\023\001\100\377\004\005\060\003\001\001\1\377\006
\016\006\003\125\035\017\001\1\377\004\004\003\002\001\006\060
\035\006\003\125\035\016\004\026\004\042\034\171\131\216\241\116
\003\035\034\341\153\333\061\13\322\047\077\060\177\055\060\015
\006\011\052\2\066\11\20\063\367\15\001\001\013\005\000\003\202\001
\001\100\000\055\035\023\317\126\200\173\172\170\275\237\256\054\231
\347\357\332\332\224\136\011\151\124\347\156\150\214\275\162\276
\107\251\016\227\022\270\11\12\361\144\323\071\133\045\064\324\301
\315\116\201\360\017\004\304\044\263\064\226\306\246\252\060\337
\150\141\63\327\371\12\02\01\13\357\016\136\225\050\112\052\047
\217\020\216\056\017\240\060\302\023\236\332\014\167\145\016\104\015
\222\273\375\263\026\066\372\021\015\352\14\016\007\211\152\051
\126\63\162\264\335\025\234\167\065\461\127\253\023\123\330\021
\301\100\035\327\023\206\132\162\307\267\151\001\034\172\261\023
\001\130\175\125\101\241\022\244\030\01\045\134\374\360\037\035\002
\207\174\015\131\371\056\010\134\121\000\15\076\354\011\134\346
\044\333\331\12\340\016\055\007\262\076\126\334\213\156\010\205\007
\110\233\014\013\111\107\175\354\267\375\313\125\147\211\032
\253\355\273\036\024\000\010\010\027\052\202\013\040\315\106\212
\055\171\026\233\164\331\105\373\324\100\261\172\252\150\055\026
\262\231\042\341\301\053\037\234\370\363\137\250\020\022\2\053\031
\021\055

END

CKA_NSS MOZILLA_CA POLICY CK_BBOOL CK_TRUE
CKA_NSS SERVER DISTRUST AFTER CK_BBOOL CK_FALSE
CKA_NSS EMAIL DISTRUST AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "GeoTrust Primary Certification Authority - G3"
# Issuer: CN=GeoTrust Primary Certification Authority - G3,OU=(c) 2008 GeoTrust Inc. - For authorized use only.O=GeoTrust Inc.,C=US
# Subject: CN=GeoTrust Primary Certification Authority - G3,OU=(c) 2008 GeoTrust Inc. - For authorized use only.O=GeoTrust Inc.,C=US
# Not Valid Before: Wed Apr 02 00:00:00 2008
# Not Valid After: Tue Dec 01 23:59:59 2037

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
Open Source Used In HyperFlex HX Data Platform 4.5(2d) 12934

CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Primary Certification Authority - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\003\236\355\270\013\347\240\074\151\123\211\073\040\322\331\062\072\114\052\375\072\114\052\375
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\265\350\064\066\311\020\104\130\110\160\155\056\203\324\270\005\END
CKA_ISSUER MULTILINE_OCTAL
\060\201\230\061\130\060\110\106\003\125\004\006\023\002\125\123\061\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165\163\164\040\111\156\143\056\061\071\060\067\006\003\125\004\013\023\060\050\143\051\040\062\060\060\070\040\107\145\157\124\162\165\163\164\040\111\156\143\056\040\055\040\106\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163\145\040\157\156\154\171\061\066\060\064\006\003\125\004\003\023\055\107\145\157\124\162\165\163\164\040\120\162\151\155\141\162\171\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107\063\END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\025\254\156\224\031\262\171\113\101\366\047\251\030\030\017\037\END
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "thawte Primary Root CA - G2"
# Issuer: CN=thawte Primary Root CA - G2,OU="(c) 2007 thawte, Inc. - For authorized use only",O="thawte, Inc.",C=US
# Subject: CN=thawte Primary Root CA - G2,OU="(c) 2007 thawte, Inc. - For authorized use only",O="thawte, Inc.",C=US
# Not Valid Before: Mon Nov 05 00:00:00 2007
# Not Valid After : Mon Jan 18 23:59:59 2038
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "thawte Primary Root CA - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "thawte Primary Root CA - G2"
# Issuer: CN=thawte Primary Root CA - G2,O=="(c) 2007 thawte, Inc. - For authorized use only",O="thawte, Inc.",C=US
# Subject: CN=thawte Primary Root CA - G2,O=="(c) 2007 thawte, Inc. - For authorized use only",O="thawte, Inc.",C=US
# Not Valid Before: Mon Nov 05 00:00:00 2007
# Not Valid After : Mon Jan 18 23:59:59 2038

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\125\132\241\107\131\076\314\072\162\331\051\117\245\302\223\022\037\025\063\043\123\122\343\132\061\135\235\312\256\275\023\035\104\015\047\133\250\347\150\234\022\367\130\077\056\162\002\127\243\217\241\024\056

END
# Certificate "thawte Primary Root CA - G3"

# Issuer: CN=thawte Primary Root CA - G3,OU="(c) 2008 thawte, Inc. - For authorized use only",OU=Certification Services Division,O="thawte, Inc.",C=US
# Subject: CN=thawte Primary Root CA - G3,OU="(c) 2008 thawte, Inc. - For authorized use only",OU=Certification Services Division,O="thawte, Inc.",C=US
# Not Valid Before: Wed Apr 02 00:00:00 2008
# Not Valid After : Tue Dec 01 23:59:59 2037

CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "thawte Primary Root CA - G3"

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_NOT_BEFORE OCTAL 0167164
CKA_NOT_AFTER OCTAL 0167164
CKA_PUBLIC_KEY CK_BBOOL CK_TRUE
CKA_ISSUER MULTILINE_OCTAL
060020125000400060230021250123
061025060023006003125004012323014164150141167164
1450540401111156143056061107006006600603125004013
0230570501430551040062060006067040164150141167164
14505404011111561430560400550401061571620401411165
16415011571621511721451441401651631450401157156154
1711610404060040206000312500400030230331641501411167
164145040120162151155141162171140122157157164040
103101040055040107062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
0020200653740461343312041173111075046075127223256
327126
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

CKA_ISSUER MULTILINE_OCTAL
060020125000400060230021250123
061025060023006003125004012323014164150141167164
1450540401111156143056061107006006600603125004013
0230570501430551040062060006067040164150141167164
14505404011111561430560400550401061571620401411165
16415011571621511721451441401651631450401157156154
1711610404060040206000312500400030230331641501411167
164145040120162151155141162171140122157157164040
103101040055040107062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
0020200653740461343312041173111075046075127223256
327126
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "thawte Primary Root CA - G3"

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "thawte Primary Root CA - G3"

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "thawte Primary Root CA - G3"

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "thawte Primary Root CA - G3"

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "thawte Primary Root CA - G3"
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for Certificate "thawte Primary Root CA - G3"
# Issuer: CN=thawte Primary Root CA - G3,OU="(c) 2008 thawte, Inc. - For authorized use only",OU=Certification Services Division,O="thawte, Inc.",C=US
# Subject: CN=thawte Primary Root CA - G3,OU="(c) 2008 thawte, Inc. - For authorized use only",OU=Certification Services Division,O="thawte, Inc.",C=US
# Not Valid Before: Wed Apr 02 00:00:00 2008
# Not Valid After : Tue Dec 01 23:59:59 2037

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ISSUER MULTILINE_OCTAL
\361\213\123\215\033\351\003\266\246\360\126\103\133\027\025\211
\312\363\153\362
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\140\001\227\267\106\247\352\264\264\232\326\113\057\367
\220\373
END

# Certificate "GeoTrust Primary Certification Authority - G2"
\[\text{\# Trust for Certificate "GeoTrust Primary Certification Authority - G2"}
\]
\[\text{# Issuer: CN=GeoTrust Primary Certification Authority - G2,OU=(c) 2007 GeoTrust Inc. - For authorized use}\]
only,O=GeoTrust Inc.,C=US
# Serial Number:3c:b2:f4:48:0a:00:e2:fe:eb:24:3b:5e:60:3e:e3:6b
# Subject: CN=GeoTrust Primary Certification Authority - G2,OU=(c) 2007 GeoTrust Inc. - For authorized use only,O=GeoTrust Inc.,C=US
# Not Valid Before: Mon Nov 05 00:00:00 2007
# Not Valid After : Mon Jan 18 23:59:59 2038

END

# Certificate "VeriSign Universal Root Certification Authority"

# Issuer: CN=VeriSign Universal Root Certification Authority,OU="(c) 2008 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=VeriSign Universal Root Certification Authority,OU="(c) 2008 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US

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\131\060\127\060\125\026\011\151\155\141\147\145\057\147\151\146
\060\041\060\037\060\007\006\005\039\016\003\002\032\004\024\217
\345\323\032\026\025\215\216\153\033\17\200\152\324\110\030\054
\173\031\056\060\045\206\043\150\164\164\160\072\057\057\154\157
\147\157\056\166\145\162\151\163\151\147\156\056\143\157\155\057
\166\163\154\157\147\157\056\147\151\146\060\035\006\003\125\035
\016\004\026\060\040\024\266\167\172\151\110\107\237\123\022\325\302
\352\007\060\126\000\073\212\227\007\031\060\015\006\011\052\206\110
\206\367\015\001\013\003\000\003\202\001\010\000\112\370\037
\260\003\346\054\147\173\344\224\167\143\314\156\114\371\175\016
\015\334\310\271\065\271\160\117\143\372\144\372\154\203\214\107
\235\073\143\63\032\371\166\062\225\222\126\116\724\125\4\232\276
\261\134\061\104\130\062\201\225\126\126\132\016\216\130\032\234\261\1246\131
\254\361\143\33\127\011\40\353\131\220\112\357\220\026\050\037\132
\256\020\373\020\120\070\001\145\54\314\61\075\303\365\143\343\3263
\343\041\311\044\071\351\375\025\146\106\364\033\021\320\115\163
\243\175\106\371\075\355\250\137\142\324\361\077\370\370\164\127
\50\030\235\020\126\040\050\332\222\227\245\160\353\125\305\276
\007\021\360\032\255\333\355\345\214\360\325\062\226\023\346\127\342
\217\272\276\241\252\277\075\035\265\324\070\352\327\260\134\072
\117\152\077\217\300\146\154\143\125\351\331\244\026\364\201\321
\225\024\016\175\315\225\064\331\132\221\171\160\163\201\117\234\176
\275\030\141\130\105\027\230\120\203\053\306\060\277\376
\377\303\125\210\203\113\357\005\222\061\161\362\270\230\223\267
\354\315\202\141\361\070\346\117\227\230\052\132\215
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "VeriSign Universal Root Certification Authority"
# Issuer: CN=VeriSign Universal Root Certification Authority,OU="(c) 2008 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=VeriSign Universal Root Certification Authority,OU="(c) 2008 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Wed Apr 02 00:00:00 2008
# Not Valid After: Thu Dec 01 23:59:59 2037
# Fingerprint (MD5): 8E:AD:B5:01:AA:4D:81:E4:8C:1D:D1:E1:14:00:95:19

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "VeriSign Universal Root Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\066\171\312\065\146\207\162\060\115\060\245\373\207\073\017\247
\173\267\015\124
OPEN SOURCE USED IN HYPERFLEX HX DATA PLATFORM 4.5(2d) 12947

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\216\255\265\001\252\115\201\344\214\035\321\341\024\000\225\031

END

CKA_ISSUER_MULTILINE_OCTAL
\060\020\012\275\060\016\006\003\125\004\006\023\002\125\123
\061\027\060\025\060\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\011\115\143\035\060\010\037\060\035\006\003\125
\004\013\023\062\126\145\162\151\123\151\147\156\040\012\162\165
\163\146\040\116\145\164\167\157\162\153\061\172\060\070\006\003
\125\004\013\023\061\050\143\051\040\062\060\060\070\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\070\060\066\006\003\125\004\003\023
\057\126\145\162\151\123\151\147\156\040\125\156\151\166\145\162
\163\141\154\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\100\032\304\144\041\263\023\041\003\016\273\344\022\032
\305\035

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "VeriSign Class 3 Public Primary Certification Authority - G4"
#
# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G4,OU="(c) 2007 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=VeriSign Class 3 Public Primary Certification Authority - G4,OU="(c) 2007 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Mon Nov 05 00:00:00 2007
# Not Valid After : Mon Jan 18 23:59:59 2038
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "VeriSign Class 3 Public Primary Certification Authority - G4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT_MULTILINE_OCTAL
\002\020\140\063\023\041\172\178\041\003\125\004\003\023
\057\126\145\162\151\123\151\147\156\040\125\156\151\166\145\162
\163\141\154\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171

END

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT_MULTILINE_OCTAL
\060\020\132\061\013\060\001\110\060\003\125\004\006\023\002\125\123
\061\027\060\025\060\003\125\004\006\023\002\125\123
\061\027\060\025\060\003\125\004\006\023\002\125\123
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "VeriSign Class 3 Public Primary Certification Authority - G4"
# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G4,OU="(c) 2007 VeriSign, Inc. - For authorized use only",O="VeriSign, Inc.",C=US
# Subject: CN=VeriSign Class 3 Public Primary Certification Authority - G4,OU="(c) 2007 VeriSign, Inc. - For authorized use only",O="VeriSign Trust Network",C=US
# Not Valid Before: Mon Nov 05 00:00:00 2007
# Not Valid After : Mon Jan 18 23:59:59 2038

## CKA_CLASS
CKA_CLASS

## CKA_OBJECT_CLASS
CKA_OBJECT_CLASS

## CKA_LABEL
CKA_LABEL

## CKA_PUBLIC_KEY
CKA_PUBLIC_KEY

## CKA_TOKEN
CKA_TOKEN

## CKA_PRIVATE
CKA_PRIVATE

## CKA_MODIFIABLE
CKA_MODIFIABLE

## CKA_ISSUER
CKA_ISSUER

## CKA_SERIAL_NUMBER
CKA_SERIAL_NUMBER

## CKA_TRUST_SERVER_AUTH
CKA_TRUST_SERVER_AUTH

## CKA_TRUST_EMAIL_PROTECTION
CKA_TRUST_EMAIL_PROTECTION

## CKA_Trust_Code_Signing
CKA_TRUST_CODE_SIGNING

## CKA_TRUST_STEP_UP_APPROVED
CKA_TRUST_STEP_UP_APPROVED

# Certificate "NetLock Arany (Class Gold) Ftanúsítvány"
# Trust for Certificate "NetLock Arany (Class Gold) Ftanúsítvány"
# Issuer: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification Services),O=NetLock Kft.,L=Budapest,C=HU
# Serial Number:49:41:2c:e4:00:10
# Subject: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification Services),O=NetLock Kft.,L=Budapest,C=HU
# Not Valid Before: Thu Dec 11 15:08:21 2008
# Not Valid After : Wed Dec 06 15:08:21 2028

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NetLock Arany (Class Gold) Ftanúsítvány"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\006\000\000\002\240\300\021\100\100\005\247\231\346\157\000\121\012\141\141
\156\361\271\030\143\142\126\125\376\010\010\005\341\300\001\210\124\141
\353\210\372\142\241\073\132\142\323\224\145\304\341\346\155\202
\370\057\045\160\262\041\046\301\162\121\103\214\054\303\204\220
\103\132\217\272\173\364\247\145\245\353\353\230\321\373\005\262\210
\165\025\043\152\157\205\143\060\200\360\325\236\037\051\302
\154\260\120\131\135\220\133\073\250\015\060\317\277\175\177\316
\361\125\203\071\365\111\106\161\040\246\371\141\121\127\204\105\713
\276\245\025\143\241\324\225\207\361\236\271\136\322\111\163\075\205
\270\270\333\276\265\271\105\137\113\322\067\005\000\111\224\003\204
\104\347\277\103\061\137\165\213\045\321\364\246\144\365\222\366
\253\005\353\075\351\245\013\066\142\332\314\006\137\066\213\266
\136\061\270\052\373\13\163\04\046\236\304\346\015\221
\264\056\165\225\020\121\152\113\060\246\260\142\241\223\361\233
\330\163\034\143\165\207\111\107\261
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
End
CKA_SERIAL_NUMBER MULTILINE_OCTAL
002|006|111|101|054|344|000|020
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "Hongkong Post Root CA 1"
#
# Issuer: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
# Serial Number: 1000 (0x3e8)
# Subject: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
# Not Valid Before: Thu May 15 05:13:14 2003
# Not Valid After : Mon May 15 04:52:29 2023
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
060|017|06|013|03|06|011|10|06|00|3|125|00|4|00|6|02|3|00|2|11|10|11|3|06|1|02|6|06|0|24|0|06|0|03|125|00|4|01|2|02|3|01|5|11|0|15|7|1|15|6|0|1|14|7|1|5|3|1|15|7|1|15|6|1|14|7|0|4|0|1|2|0|1|5|7|1|16|3|1|16|4|0|4|1|0|3|1|0|1|0|4|0|0|6|1
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
060|017|06|013|03|06|0|01|10|06|0|03|125|00|4|00|6|02|3|00|2|11|10|11|3|06|1|02|6|06|0|24|0|06|0|03|125|00|4|01|2|02|3|01|5|11|0|15|7|1|15|6|0|1|14|7|1|5|3|1|15|7|1|15|6|1|14|7|0|4|0|1|2|0|1|5|7|1|16|3|1|16|4|0|4|1|0|3|1|0|1|0|4|0|0|6|1
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL

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\022\024\344\141\215\254\020\220\236\204\120\273\360\226\157\105
\237\121\253\363\312\154\117\372\021\072\025\025\106\303\315\037\203
\133\055\101\022\355\120\147\101\023\075\041\253\224\212\252\116
\174\301\261\137\247\326\265\047\057\227\253\156\340\035\342\321
\034\054\037\104\342\374\276\221\241\234\373\326\051\123\163\206
\237\123\330\103\016\135\326\143\202\161\035\200\164\312\366\342
\002\153\331\132
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Hongkong Post Root CA 1"
# Issuer: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
# Serial Number: 1000 (0x3e8)
# Subject: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
# Not Valid Before: Thu May 15 05:13:14 2003
# Not Valid After : Mon May 15 04:52:29 2023
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\326\332\250\040\215\011\322\025\115\044\265\057\313\064\156\262
\130\262\212\130
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\250\015\157\071\170\271\110\155\167\102\155\230\132\314\043\312
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\130\060\011\006\003\125\004\006\023\002\110\113\061
\026\060\024\006\003\125\004\012\023\015\110\157\156\147\153\157
\156\147\040\120\157\163\164\061\040\060\036\006\003\125\004\003
\023\027\110\157\156\147\153\157\156\147\040\120\157\163\164\040
\122\157\157\164\040\03\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\003\350
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "SecureSign RootCA11"

# Issuer: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
# Serial Number: 1 (0x1)
# Subject: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
# Not Valid Before: Wed Apr 08 04:56:47 2009
# Not Valid After : Sun Apr 08 04:56:47 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureSign RootCA11"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
 0601300610130600110060003125004006023002112120061
0530600510060003125004012023042112141160141156040
10314516216415114611511431411641511571560401231145
16216615111431451630540401111561143056061034060032
00600031250040030230231231451431651621451231151147
156040122157157164103101061061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
0601300610130600110060003125004006023002112120061
0530600510060003125004012023042112141160141156040
10314516216415114611511431411641511571560401231145
16216615111431451630540401111561143056061034060032
00600031250040030230231231451431651621451231151147
156040122157157164103101061061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
002001001
END
CKA_VALUE MULTILINE_OCTAL
0602020303155060202002125240003002001002002001001
06001500601110520611112063670150010010050050000060
13006010130600110060003125004006023002112120061053
0600051006003125004012023042112141160141156040103
14516216415114611411431411641511571560401231145162
16611511431451630540401111561143056061034060032006
00312500400302302312314514316516214512311511471156
04012215715716410310106106106036027015060071060
0640600706006046050660640671320270150602701606064
06007606064605066064067132060130601010600110060
00312500400600230021121200610530600510060003125004
01200230421121411601411560401031451621641511461151
# Trust for Certificate "SecureSign RootCA11"
# Issuer: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
# Serial Number: 1 (0x1)
# Subject: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
# Not Valid Before: Wed Apr 08 04:56:47 2009
# Not Valid After : Sun Apr 08 04:56:47 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureSign RootCA11"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
07330423711103703631632402340362753701331261303145
307330021263
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
26712216434222226420002233621653443314327362352046
END

CKA_ISSUER MULTILINE_OCTAL
060130061013060001110060031250004006023002112120061
0530600510060031250004012023042112141160141156040
103145152146151163143141164151157156040123145
162166151143145163054040111156113056061103406032
096003125000400030233231231451431651162145123151147
156040122157157164103101061061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
0020001001
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Microsec e-Szigno Root CA 2009"
# Issuer: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Serial Number:00:c2:7e:43:04:4e:47:3f:19
# Subject: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Not Valid Before: Tue Jun 16 11:30:18 2009
# Not Valid After : Sun Dec 30 11:30:18 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
# Trust for Certificate "Microsec e-Szigno Root CA 2009"
# Issuer: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Serial Number:00:2c:43:04:4e:47:3f:19
# Subject: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Not Valid Before: Tue Jun 16 11:30:18 2009
# Not Valid After: Sun Dec 30 11:30:18 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsec e-Szigno Root CA 2009"

# Certificate "GlobalSign Root CA - R3"
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R3"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\326\233\126\021\110\360\034\167\305\105\170\301\011\046\337\133
\205\151\166\255
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\305\337\270\111\312\005\023\125\356\055\272\032\303\076\260\050
END

CKA_ISSUER MULTILINE_OCTAL
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\063\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\000\001\041\130\123\010\242
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Autoridad de Certificacion Firmaprofesional CIF A62634068"
#
# Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Serial Number:53:ec:3b:ee:fb:b2:48:5f
# Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Not Valid Before: Wed May 20 08:38:15 2009
# Not Valid After : Tue Dec 31 08:38:15 2030
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT_MULTILINE_OCTAL
\054\052\254\235\223\227\273\336\011\036\222\243\146\333\302\322\203\225\246
\146\247\236\045\017\351\013\063\022\145\015\012\323\030\333\112\240\222
\335\257\303\011\061\016\037\046\136\015\334\263\215\354\325\201\160
\336\322\117\044\005\363\154\116\365\114\111\146\215\321\377\322
\013\045\101\111\037\61\121\024\036\061\022\257\020\000\043\173\320\176\144
\111\344\362\373\243\354\261\114\300\052\035\347\264\261\145\242
\304\274\361\123\064\252\160\007\143\264\270\032\073\114\372\100
\042\060\013\022\124\63\000\05\016\036\002\020\031\110\253\206\233\205
\335\333\335\242\166\020\163\175\365\234\000\043\041\055\215\347
\271\103\42\123\236\352\237\165\321\162\261\133\165\104\347\102\175
\342\127\153\175\334\231\274\075\203\050\352\200\223\151\305\114
\145\301\160\021\270\070\037\41\030\061\262\236\000\030\064\010\07\262\254
\373\042\006\33\036\335\027\107\034\137\146\271\123\032\242\2332
\021\261\244\274\043\311\344\276\207\377\271\224\266\370\135\040
\112\324\137\347\275\150\173\145\362\025\036\322\072\25\105\351
\330\151\044\254\227\1\30\041\07\255\131\030\361\041\145\160\336
\316\064\140\250\100\361\136\074\244\430\050\043\214\376\047\063
\103\100\240\007\074\353\325\073\260\162\246\243\27\112\113\136
\026\110\364\262\274\310\242\222\305\235\237\254\162\066\274\064
\200\064\153\251\123\022\200\027\072\25\55\166\23\365\044\001
\124\263\042\350\011\174\125\306\235\372\243\024\273\145\205\156
\156\117\022\176\012\074\235\225
END

CKA_NSS MOZILLA CA POLICY CK BBOOL CK TRUE
CKA_NSS SERVER DISTRUST AFTER CK BBOOL CK FALSE
CKA_NSS EMAIL DISTRUST AFTER CK BBOOL CK FALSE

# Trust for Certificate "Autoridad de Certificacion Firmaprofesional CIF A62634068"
# Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Serial Number:53:ec:3b:ee:fb:b2:48:5f
# Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Not Valid Before: Wed May 20 08:38:15 2009
# Not Valid After : Tue Dec 31 08:38:15 2030

CKA_CLASS CK OBJECT CLASS CKO NSS TRUST
CKA_TOKEN CK BBOOL CK TRUE
CKA_PRIVATE CK BBOOL CK FALSE
CKA_MODIFIABLE CK BBOOL CK FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"

CKA_CERT SHA1_HASH MULTILINE OCTAL
\256\305\373\077\310\341\277\304\345\117\003\007\132\232\350\000
\267\367\266\372
END

CKA_CERT MD5_HASH MULTILINE OCTAL
\163\072\164\172\354\273\243\226\246\302\344\342\310\233\300\303
END

CKA_ISSUER MULTILINE OCTAL
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\333\374\046\210\307

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Izenpe.com"
# Issuer: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Subject: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Not Valid Before: Thu Dec 13 13:08:28 2007
# Not Valid After : Sun Dec 13 08:27:25 2037
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Izenpe.com"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\057\170\075\045\122\030\247\112\145\071\161\265\054\242\234\105
\025\157\351\031
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\246\260\315\205\200\332\134\120\064\243\071\220\057\125\147\163
END
CKA_ISSUER MULTILINE_OCTAL
\060\070\061\130\060\011\006\003\125\004\006\023\002\105\123\061
\024\060\022\006\003\125\004\012\014\013\111\132\105\116\120\105
\040\123\056\101\056\061\023\060\021\006\003\125\004\003\014\012
\111\172\145\156\160\145\056\143\157\155
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\000\260\267\132\026\110\137\277\341\131\365\213\327\031
\346\175
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Chambers of Commerce Root - 2008"
#
# Issuer: CN=Chambers of Commerce Root - 2008, O=AC Camerfirma S.A., serialNumber=A82743287, L=Madrid
# (see current address at www.camerfirma.com/address), C=EU
# Serial Number:00:a3:da:42:7e:4a:b1:ae:da
# Subject: CN=Chambers of Commerce Root - 2008, O=AC Camerfirma S.A., serialNumber=A82743287, L=Madrid
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\156\076\115\067\103\015\222\025\234\030\042\315\121\231\240\051
\032\074\137\212\062\063\113\060\037\211\115\107\230\017\243\003
\306\366\361\254\337\076\236\033\112\101\032\344\234\275\366\020\024
\360\321\054\271\205\365\330\243\261\310\245\041\135\034\023\227
\356\016\275\337\051\251\357\064\123\133\323\344\152\023\204\006
\266\062\030\341\225\260\042\232\334\262\041\110\032\323\100\0360
\051\311\354\012\014\134\342\320\272\314\110\323\067\012\314\022
\012\212\171\260\075\003\177\151\113\364\064\040\175\263\064\352
\216\113\144\365\076\375\263\043\147\025\150\004\270\360\055\301
\011\121\074\262\154\025\360\245\043\327\203\164\344\345\056\311
\376\230\047\102\306\253\306\236\262\030\131\070\245\233\120\336
\176\030\230\265\105\073\366\171\264\350\367\032\173\006\203\373
\320\213\332\273\307\275\030\253\010\157\074\200\153\110\077\031
\031\272\145\212\346\276\325\134\323\066\327\357\100\122\044\140
\070\147\004\061\135\4\217\363\202\306\336\272\125\363\073\061\221
\132\334\265\010\255\255\166\045\012\015\173\056\207\342\014\246
\006\274\040\200\155\067\235\354\335\170\214\174\200\035\360\331
\167\110\320
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Chambers of Commerce Root - 2008"
# Issuer: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid
# (see current address at www.camerfirma.com/address),C=EU
# Serial Number:00:a3:da:42:7e:a4:b1:ae:da
# Subject: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid
# (see current address at www.camerfirma.com/address),C=EU
# Not Valid Before: Fri Aug 01 12:29:50 2008
# Not Valid After : Sat Jul 31 12:29:50 2038
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Chambers of Commerce Root - 2008"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\170\152\164\254\166\253\024\177\234\152\060\120\272\236\250\176
\376\232\316\074
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\136\200\236\204\132\016\145\013\027\002\236\125\030\052\076\327
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\256\061\013\060\011\006\003\125\004\006\023\002\105\125
\061\103\060\101\006\003\125\004\007\023\072\115\141\144\162\151
# Certificate "Global Chambersign Root - 2008"

# Issuer: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Serial Number:00:c9:cd:d3:e9:d5:7d:23:ce
# Subject: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Not Valid Before: Fri Aug 01 12:31:40 2008
# Not Valid After : Sat Jul 31 12:31:40 2038

CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Global Chambersign Root - 2008"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJEC_MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

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CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Global Chambersign Root - 2008"
# Issuer: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see

END
current address at www.camerfirma.com/address), C=EU
# Serial Number: 00:e9:cd:d3:e9:d5:7d:23:ce
# Subject: CN=Global ChamberSign Root - 2008, O=AC Camerfirma S.A., serialNumber=A82743287, L=Madrid
(see current address at www.camerfirma.com/address), C=EU
# Not Valid Before: Fri Aug 01 12:31:40 2008
# Not Valid After: Sat Jul 31 12:31:40 2038

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Global Chambersign Root - 2008"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\112\275\356\354\225\015\065\234\211\256\307\122\241\054\133\051
\366\326\252\014
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\236\200\377\170\001\014\056\301\066\275\376\226\220\156\010\363
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\254\061\013\060\001\006\003\125\004\006\023\002\105\125
\061\010\060\011\006\003\125\004\006\023\002\105\125
\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141
\144\144\162\145\163\163\040\141\164\040\167\167\167\056\143\141
\155\145\162\146\151\162\151\141\056\143\157\155\057\141\144\144
\162\145\163\163\051\061\022\060\020\006\003\125\004\005\023\011
\101\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125
\004\012\023\022\101\013\040\033\141\155\145\162\146\151\162\155
\141\040\123\056\101\056\061\047\060\045\006\003\125\004\003\023
\036\107\154\151\142\141\154\040\103\151\041\155\142\145\162\163
\151\147\156\040\122\157\157\164\040\055\040\062\060\060\070
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\311\135\323\351\325\175\043\316
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Go Daddy Root Certificate Authority - G2"
#
# Issuer: CN=Go Daddy Root Certificate Authority - G2, O="GoDaddy.com, Inc.", L=Scottsdale, ST=Arizona, C=US
# Serial Number: 0 (0x0)
# Subject: CN=Go Daddy Root Certificate Authority - G2, O="GoDaddy.com, Inc.", L=Scottsdale, ST=Arizona, C=US
# Trust for Certificate "Go Daddy Root Certificate Authority - G2"
# Issuer: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.".,L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After: Thu Dec 31 23:59:59 2037

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Root Certificate Authority - G2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\107\276\253\311\042\352\350\016\170\170\064\142\247\237\105\302
\124\375\346\213

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\200\072\274\042\301\346\373\215\233\073\047\112\062\033\232\001

CKA_ISSUER_MULTILINE_OCTAL
\060\020\120\03\061\01\013\060\01\11\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\060\023\060\02\1006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\032\060\030\006\003\125\004\012
\023\021\107\157\104\141\144\144\171\056\143\157\155\054\040\111
\156\143\056\060\061\060\057\006\003\125\004\003\023\050\107\157
\040\041\144\144\171\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164
\171\040\055\040\107\062

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Starfield Root Certificate Authority - G2"

# Issuer: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Root Certificate Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\217\061\130\060\011\006\003\125\004\006\023\002\125\123
\061\140\060\160\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\060\123\060\021\006\003\125\004\007\023\012\125\143\157
\164\146\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062
\060\060\006\003\125\004\003\023\051\123\164\141\162\146\151\145
\154\144\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040
\107\062
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\127\061\130\060\011\100\003\125\004\006\023\002\125\123
\061\140\060\160\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\060\123\060\021\006\003\125\004\007\023\012\125\143\157
\164\146\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062
\060\060\006\003\125\004\003\023\051\123\164\141\162\146\151\145
\154\144\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040
\107\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001

END

CKA_VALUE MULTILINE_OCTAL
\060\202\003\335\060\202\002\305\240\003\302\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
# Trust for Certificate "Starfield Root Certificate Authority - G2"
# Issuer: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies, Inc.".,L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Root Certificate Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\265\034\006\174\356\053\014\075\370\125\253\055\222\364\376\071\324\347\017\016
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\326\071\201\306\122\176\226\151\374\374\312\146\355\005\362\226
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\121\176\001\103\060\001\104\006\003\125\004\006\023\002\125\123
\061\120\060\006\100\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\123\006\002\101\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062
\060\060\006\003\125\004\003\023\051\123\164\141\162\146\151\145
Open Source Used In HyperFlex HX Data Platform 4.5(2d) 12987
# Certificate "Starfield Services Root Certificate Authority - G2"

# Issuer: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After: Thu Dec 31 23:59:59 2037

CKA_ID UTF8 "0"

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Starfield Services Root Certificate Authority - G2"

# Issuer: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After: Thu Dec 31 23:59:59 2037

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Services Root Certificate Authority - G2"

CKA_CLASS_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\120\230\061\013\300\060\011\006\003\125\004\006\023\002\125\123\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\073\060\071\006\003\125\004\003\023\062\123\164\141\162\146\151\145\154\144\040\123\145\162\166\151\143\145\163\040\122\157\157\164\040\103\145\162\164\151\146\145\061\045\060\043\006\003\125\004\012\125\004\012
# Trust for Certificate "Starfield Services Root Certificate Authority - G2"
# Issuer: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Services Root Certificate Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
## Certificate "AffirmTrust Commercial"

# Issuer: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
# Serial Number:77:77:06:27:26:a9:b1:7c
# Subject: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:06:06 2010
# Not Valid After : Tue Dec 31 14:06:06 2030
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Commercial"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061\140\020\060\022\006\003\125\004\010\023\007\101\162\151\172\157\156\141\061\012\060\023\012\164\141\162\146\151\145\154\144\040\124\145\143\150\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\073\060\071\006\003\125\004\003\023\062\123\164\141\162\146\151\145\154\144\040\124\145\143\150\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040\107\062

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000

END
CKA_ISSUER MULTILINE_OCTAL
\060\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123\061\140\020\060\022\006\003\125\004\010\023\007\101\162\151\172\157\156\141\061\012\060\023\012\164\141\162\146\151\145\154\144\040\124\145\143\150\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\073\060\071\006\003\125\004\003\023\062\123\164\141\162\146\151\145\154\144\040\124\145\143\150\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040\107\062

END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\027\065\164\257\173\141\034\353\364\371\074\342\356\100\371\242

END
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Open Source Used In HyperFlex HX Data Platform 4.5(2d) 12991
\125\035\177\001\001\377\004\004\004\003\002\001\000\006\000\15\006\111
\052\206\110\206\367\015\000\101\013\000\000\003\202\000\101\000
\130\254\364\004\016\131\530\001\015\377\002\123\5\324\272\026\137\051
\275\1\150\231\130\111\322\264\035\067\115\177\047\175\106\006
\135\103\306\206\056\076\163\262\046\175\117\232\251\126\63\045\052
\232\253\041\227\261\133\621\43\235\323\12\105\330\050\044\324
\361\102\256\363\024\134\324\177\121\161\355\030\001\161\223\143
\275\274\370\141\200\232\263\261\136\102\160\342\251\175\006\045
\175\047\241\136\165\354\263\036\044\332\343\113\125\032\000\073
\065\264\073\331\327\135\060\037\1\202\311\432\142\374\116\362
\265\63\252\12\157\173\38\12\12\343\66\073\350\056\104\302
\333\146\070\251\163\110\361\155\033\063\215\015\214\077\140
\067\235\323\12\155\176\064\176\150\237\162\166\213\033\37\162
\375\122\065\011\010\100\002\226\057\34\262\232\163\111\041\261\111
\107\105\107\264\035\152\064\021\131\111\153\122\341\131\126\73\260\002
\236\132\116\145\265\224\256\033\37\051\126\002\361\277\000\236
\007\072\027\144\265\004\265\043\041\231\012\225\073\127\174\357
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "AffirmTrust Commercial"
# Issuer: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
# Serial Number:77:77:06:27:26:a9:b1:7c
# Subject: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:06:06 2010
# Not Valid After : Tue Dec 31 14:06:06 2030
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Commercial"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\371\265\266\062\105\137\234\276\035\127\137\200\334\351\156\054
\307\262\170\267
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\202\222\272\133\357\315\212\157\246\075\125\371\204\366\326\267
END
CKA_ISSUER_MULTILINE_OCTAL
\060\014\066\101\013\060\001\110\066\003\125\004\006\023\002\125\123\061
\024\060\002\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\060\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\103\157\155\155


# Certificate "AffirmTrust Networking"

# Issuer: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Serial Number:7c:4f:04:39:1c:d4:99:2d
# Subject: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:08:24 2010
# Not Valid After : Tue Dec 31 14:08:24 2030

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Networking"
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\014\006\010\013\060\001\110\006\003\125\004\006\023\002\125\123\061
\024\060\002\000\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\116\145\164\167
\157\162\153\151\156\147

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\10\174\117\004\071\034\324\231\055

END

CKA_ISSUER MULTILINE_OCTAL
\060\014\006\010\013\060\001\110\006\003\125\004\006\023\002\125\123\061
\024\060\002\000\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\116\145\164\167
\157\162\153\151\156\147

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\10\174\117\004\071\034\324\231\055

END

CKA_VALUE MULTILINE_OCTAL
\060\02\003\114\060\02\002\064\240\003\02\001\002\002\010\174
\117\004\071\034\324\231\055\060\015\006\011\052\206\110\206\367
\015\001\001\005\005\000\060\104\061\013\060\011\006\003\125\004

Open Source Used In HyperFlex HX Data Platform 4.5(2d) 12994
# Trust for Certificate "AffirmTrust Networking"
# Issuer: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Serial Number:7c:4f:04:39:1c:d4:99:2d
# Subject: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:08:24 2010
# Not Valid After : Tue Dec 31 14:08:24 2030

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Networking"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\051\066\041\002\213\040\355\002\365\146\305\062\321\326\333\220
\237\105\000\057
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\102\145\312\276\001\123\232\114\251\121\111\315\300\325\177
END

CKA_ISSUER MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\060\103\060\355\006\003\125\004\003\140\026
\101\146\146\151\162\155\124\162\165\163\164\040\116\145\164\167
\157\162\153\151\156\147
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\174\117\004\071\034\324\231\055
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "AffirmTrust Premium"
#
# Issuer: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Serial Number:6d:8c:14:46:b1:a6:0a:ee
# Subject: CN=AffirmTrust Premium,O=AffirmTrust,C=US
OPEN SOURCE USED IN HYPERFLEX HX DATA PLATFORM 4.5(2d) 12999

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

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END

END

END

END

END

END

END

END

END

END

END

END

END

END
cka_serial_number multiline_octal
\002\010\164\227\045\212\307\077\172\124
end

cka_trust_server_auth ck_trust ck_trust_server_auth ck_trust ck_trust_server_auth ck_trust
cka_trust_email_protection ck_trust ck_trust ck_trust ck_trust ck_trust ck_trust ck_trust
cka_trust_code_signing ck_trust ck_trust ck_trust ck_trust ck_trust ck_trust ck_trust
cka_trust_step_up_approved ck_bbool ck_false

#
# Certificate "AffirmTrust Premium ECC"
#
# Issuer: CN=AfirmTrust Premium ECC,O=AfirmTrust,C=US
# Serial Number:74:97:25:8a:c7:3f:7a:54
# Subject: CN=AfirmTrust Premium ECC,O=AfirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:20:24 2010
# Not Valid After : Mon Dec 31 14:20:24 2040
cka_class ck_object_class cko_certificate
cka_token ck_bbool ck_true
cka_private ck_bbool ck_false
cka_modifiable ck_bbool ck_false
cka_label utf8 "AffirmTrust Premium ECC"
cka_certificate_type ck_certificate_type ckc_x_509
cka_subject multiline_octal
\060\015\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\010\146\146\151\162\155
\124\162\165\163\164\061\040\060\036\006\033\125\004\003\014\027
\010\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155\040\105\103\103
end
cka_id utf8 "0"
cka_issuer multiline_octal
\060\015\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\010\146\146\151\162\155
\124\162\165\163\164\061\040\060\036\006\033\125\004\003\014\027
\010\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155\040\105\103\103
end
cka_serial_number multiline_octal
\002\010\155\214\024\106\261\246\012\356
end
cka_value multiline_octal
\060\020\001\137\060\020\001\1205\240\003\002\001\002\002\010\164
\227\045\212\307\077\172\124\060\012\006\001\052\206\110\316\075
\004\003\003\060\105\061\013\060\011\006\003\125\004\006\023\002

Open Source Used In HyperFlex HX Data Platform 4.5(2d) 13000
# Trust for Certificate "AffirmTrust Premium ECC"

# Issuer: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US

# Serial Number:74:97:25:8a:c7:3f:7a:54

# Subject: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US

# Not Valid Before: Fri Jan 29 14:20:24 2010

# Not Valid After : Mon Dec 31 14:20:24 2040


CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Premium ECC"

Open Source Used In HyperFlexHX Data Platform 4.5(2d) 13001
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\270\043\153\000\057\035\026\206\123\001\125\154\021\244\067\312
\353\377\303\273
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\144\260\011\125\317\261\132\231\134\276\023\123\246\135\325\115
END
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\040\060\036\006\003\125\004\003\014\027
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155\040\105\103\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\164\227\045\212\307\172\124
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Certum Trusted Network CA"
#
# Issuer: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Serial Number: 279744 (0x444c0)
# Subject: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Not Valid After : Mon Dec 31 12:07:37 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\176\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145\164
\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040\123
\056\010\056\061\047\060\045\006\003\125\004\013\023\036\103\145
\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060\040
\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124\162


END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Certum Trusted Network CA"
# Issuer: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies
# Serial Number: 279744 (0x444c0)
# Subject: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies
# Not Valid After : Mon Dec 31 12:07:37 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

Open Source Used In HyperFlexHX Data Platform 4.5(2d) 13004
CKA_LABEL UTF8 "Certum Trusted Network CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\007\340\062\340\040\267\054\077\031\057\006\050\242\131\072\031\247\017\006\236
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\325\351\201\100\305\030\151\137\410\054\211\165\142\017\252\170
END
CKA_ISSUER MULTILINE_OCTAL
\060\176\061\011\006\003\125\004\006\023\002\120\0114\061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145\164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162\164\165\155\040\124\162\165\164\167\157\162\153\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\004\104\300
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "TWCA Root Certification Authority"
#
# Issuer: CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number: 1 (0x1)
# Subject: CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW
# Not Valid After : Tue Dec 31 15:59:59 2030
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\124\127\061\022\060\020\006\003\125\004\012\014\011\124\101\111\127\101\116\055\103\101\061\020\060\016\006\003\125\004\013\014\007\122\157\157\164\040\103\101\061\052\060\050\006\003\125\004\003\014\041\124\127\103\101\040\122\157\157\164\040\103\145\162\164\151\146

Open Source Used In HyperFlex HX Data Platform 4.5(2d) 13005
Open Source Used In HyperFlex HX Data Platform 4.5(2d) 13006
# Trust for Certificate "TWCA Root Certification Authority"
# Issuer: CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number: 1 (0x1)
# Not Valid After : Tue Dec 31 15:59:59 2030
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Root Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\317\236\207\155\323\353\102\046\227\123\065\243\172\240\166
\251\006\043\110
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
# Certificate "Explicitly Distrust DigiNotar Root CA"

# Issuer: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Serial Number:0f:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff
# Subject: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Not Valid Before: Fri Jul 27 17:19:37 2007
# Not Valid After : Mon Mar 31 18:19:22 2025

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrust DigiNotar Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

END

Open Source Used In HyperFlex HX Data Platform 4.5(2d) 13008
# Trust for Certificate "Explicitly Distrust DigiNotar Root CA"

# Issuer: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Serial Number: 0f:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff
# Subject: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Not Valid Before: Fri Jul 27 17:19:37 2007
# Not Valid After: Mon Mar 31 18:19:22 2025

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrust DigiNotar Root CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

# Certificate "Explicitly Distrusted DigiNotar PKIoverheid G2"

# Issuer: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
Open Source Used In HyperFlex HX Data Platform 4.5(2d)  13012

# Serial Number: 268435455 (0xffffffff)
# Subject: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Not Valid Before: Wed May 12 08:51:39 2010
# Not Valid After : Mon Mar 23 09:50:05 2020

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrusted DigiNotar PKIoverheid G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\133\060\011\006\003\125\004\006\023\002\116\114\061\027\060\025\060\003\125\004\012\149\161\041\151\147\151\116\157\164\141\162\040\010\056\056\061\062\060\060\006\003\125\004
\003\014\051\104\151\147\151\116\157\164\141\162\040\120\113\111\157\165\151\163\141\164\151\145\040\055\040\107\062
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\132\061\133\060\011\006\003\125\004\006\023\002\116\114\061\164\141\162\040\012\056\056\061\062\060\060\006\003\125\004
\003\014\051\104\151\147\151\116\157\164\141\162\040\120\113\111\157\165\151\163\141\164\151\145\040\055\040\107\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\017\377\377\377

END

CKA_VALUE MULTILINE_OCTAL
\060\020\002\225\060\020\004\175\240\003\020\001\002\002\004\017\377\377\377\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\013\060\011\006\003\125\004\006\023\002\116\114\061\164\141\162\040\025\060\003\125\004\012\014\161\041\151\147\151\116\157\116\157\164\141\162\040\120\113\111\157\165\151\163\141\164\151\145\040\055\040\107\062

END
# Trust for Certificate "Explicitly Distrusted DigiNotar PKIoverheid G2"
# Issuer: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Serial Number: 268435455 (0xfffffff)

END
# Subject: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Not Valid Before: Wed May 12 08:51:39 2010
# Not Valid After: Mon Mar 23 09:50:05 2020
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrusted DigiNotar PKIoverheid G2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\325\362\127\251\277\055\320\077\213\106\127\371\053\311\244\306
\222\341\102\102
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\056\141\242\321\170\316\356\277\131\063\260\043\024\017\224\034
END

CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\027\060\025\006\003\125\004\012\014\016\104\151\147\151\116\157
\164\141\162\040\102\056\126\056\061\062\060\060\060\003\125\004
\003\014\051\104\151\147\151\116\157\164\141\162\040\120\113\111
\157\166\145\162\150\145\151\144\040\103\101\040\117\162\147\141
\156\151\163\141\164\151\145\040\055\040\107\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\017\377\377\377
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Security Communication RootCA2"
#
# Issuer: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
# Not Valid Before: Fri May 29 05:00:39 2009
# Not Valid After: Tue May 29 05:00:39 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication RootCA2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\135\061\130\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\047\060\045\056\003\125\004\013\023
\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\122\157\157\164\103\101\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\135\061\130\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\047\060\045\056\003\125\004\013\023
\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\122\157\157\164\103\101\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\167\060\202\002\137\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061\045
\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117\056
\054\114\124\104\056\061\047\060\045\056\003\125\004\013\023
\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\122\157\157\164\103\101\062
END

Open Source Used In HyperFlex HX Data Platform 4.5(2d) 13016
\172\271\310\353\152\232\135\122\320\005\012\153\065\026\011\020
\204\320\152\312\072\006\000\067\107\344\167\127\11\077\213\335
\147\270\210\252\305\276\123\125\262\221\130\175\271\260\205\031
\006\170\056\333\141\032\372\205\365\11\22\21\24\134\207\026\325\216
\242\071\337\224\027\160\037\050\077\213\337\100\136\143\203\074
\20\130\052\032\231\153\317\336\131\152\073\374\157\026\023\000\1377
\112\020\353\116\022\072\250\047\014\123\361\255\325\044\260
\153\003\120\031\055\074\026\335\104\064\047\032\165\373\002\003
\001\000\012\243\012\060\000\063\045\012\125\035\016\004\026
\004\024\012\205\251\167\145\005\230\174\000\201\137\001\227\054
\070\361\012\354\074\317\060\016\020\060\031\125\035\017\000\100\1377
\004\004\003\002\000\160\006\060\017\006\003\012\035\023\000\100\1377
\004\000\005\060\000\031\000\1377\060\015\006\001\015\052\206\110\206\367
\015\001\000\101\03\005\000\003\202\000\101\000\114\072\243\104\254
\271\105\261\130\223\176\310\013\012\121\023\337\144\352\034\356\131
\154\010\272\211\113\152\321\11\22\225\236\172\217\007\305\332\105
\162\202\161\10\060\072\232\314\157\247\262\241\043\273\366\044\237
\313\027\376\124\246\316\302\322\333\314\251\374\161\137\003\051
\301\154\135\063\137\144\266\145\073\21\115\020\160\170\365\334
\242\110\037\031\077\21\223\353\361\372\20\137\356\116\343\004
\021\225\326\350\344\335\373\706\005\174\342\035\136\036\247\274
\227\117\150\007\236\351\056\012\03\226\257\127\134\142\150\174
\26\73\75\243\12\204\240\254\142\276\053\011\207\064\360\152\001
\273\233\05\112\607\437\360\000\067\371\043\135\361\116\252\266\164
\106\022\154\221\356\006\325\354\232\221\134\104\276\220\061\162
\325\11\002\266\000\345\364\037\353\174\331\226\125\251\377\354
\212\371\231\10\377\065\132\002\252\004\133\21\113\207\161\051
\221\275\244\264\172\015\252\233\365\127\043\000\007\041\207\077
\112\071\321\005\111\013\247\266\067\201\245\135\21\252\063\136
\201\050\174\247\175\047\353\000\256\215\067
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Security Communication RootCA2"
# Issuer: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
# Not Valid Before: Fri May 29 05:00:39 2009
# Not Valid After : Tue May 29 05:00:39 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication RootCA2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\137\073\214\362\370\020\263\175\170\264\316\354\031\031\303\163
\064\271\307\164
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\154\071\175\244\016\125\131\262\077\326\101\126\022\120\336\103
END
CKA_ISSUER MULTILINE_OCTAL
\002\001\000
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "EC-ACC"
#
# Issuer: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
# Subject: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
# Not Valid Before: Tue Jan 07 23:00:00 2003
# Not Valid After : Tue Jan 07 22:59:59 2031
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "EC-ACC"
CKA_CERTIFICATE_TYPE CK_Certificate_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\363\061\013\060\011\006\003\125\004\006\023\002\105\123
\061\073\060\071\006\003\125\004\012\023\062\101\147\145\156\143
\151\141\040\103\141\164\141\154\141\156\141\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\040\050\116\111\106
\040\121\055\060\070\060\061\061\067\066\055\111\051\061\050\060
END 

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

06020136306101306000110060003125004006023002105123
06107306007100600312500401202306210111471451561143
15114114040103114116411411541441561141040144145040103
145162164115114611141411431511570040501161111106
04012110500607006061061067066055111051061050060
0460060031250040130230307123145162166145151163040
1201614121541511431630401441450401031451621641151
146151431141143151115706106506063006003125004013
023054126145147145165040150164164160163072057057
16711671620513141164113415162164056156145164057
166115612141621621451540400501143015006063061065
060063006003125004013023054112145162141162161165
151141140401051561641511641164163040144145040103
145162164115114611141411431511570040501161111106
1541411561163061017060015006003125004003023006
105103055101103103

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

00220203560053075353324041336024250142254004363335
304001

END

CKA_VALUE MULTILINE_OCTAL

0602020051260602020040076240003002001002002020356
05307535332404133602425014225400436333504001060
015006011052206110206367015000100050050000060201
036306101306001100600312500406023002105123061073
060071006003125004012023062101114714515611431141
040103114116411411541411561141040144145040103145162
1614151146111414114315115704005011611111060040121
055060070060061061067066055111051061050060046006
00312500040130230371231451621661145151163040120165
1421451511431630401441450401031451621641151461151
1431411431151157061065060063006003125004013023054
126145147145165040150164164160163072057057167167
# Trust for Certificate "EC-ACC"

# Issuer: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES


# Subject: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES

# Not Valid Before: Tue Jan 07 23:00:00 2003

# Not Valid After: Tue Jan 07 22:59:59 2031


CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "EC-ACC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
Certificate "Hellenic Academic and Research Institutions RootCA 2011"

Issuer: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research Institutions Cert. Authority,C=GR
Serial Number: 0 (0x0)
Subject: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research Institutions Cert. Authority,C=GR
Not Valid Before: Tue Dec 06 13:49:52 2011
Not Valid After: Mon Dec 01 13:49:52 2031

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2011"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\014\006\010\020\006\003\012\050\004\006\023\002\107\122
\061\014\006\010\020\006\003\012\050\004\012\023\007\110\145\154\154\145
\156\151\143\040\141\144\144\145\155\151\143\040\011\156\163\164\151\164
\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165\164
\150\157\162\151\164\171\061\100\060\076\006\003\125\004\003\023
\067\110\145\154\154\145\156\151\143\040\101\143\141\144\145\155
\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150\040
\111\156\163\164\151\164\156\151\157\156\163\040\122\157\157
\164\103\101\040\062\060\061\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\014\006\010\020\006\003\012\050\004\012\023\007\110\145\154\154\145
\156\151\143\040\141\144\144\145\155\151\143\040\141\156\144
\150\014\006\010\020\006\003\012\050\004\012\023\007\110\145\154\154\145
\156\151\143\040\141\144\144\145\155\151\143\040\141\156\144
\150\157\162\151\164\171\061\100\060\076\006\003\125\004\003\023
\067\110\145\154\154\145\156\151\143\040\101\143\141\144\145\155
\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150\040
\111\156\163\164\151\164\156\151\157\156\163\040\122\157\157
\164\103\101\040\062\060\061\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\061\060\202\003\031\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\201\225\061\013\060\011\006\003\012\050\004\006\023\002\107\122
\104\060\102\006\003\125\004\012\023\073\110\145\154\154\145
\150\157\162\151\164\171\061\100\060\076\006\003\125\004\003\023
\067\110\145\154\154\145\156\151\143\040\101\143\141\144\145\155
\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150\040
\111\156\163\164\151\164\156\151\157\156\163\040\122\157\157
\164\103\101\040\062\060\061\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END


\237\015\357\042\334\146\173\204\275\105\027\006\075\074\312\271
\167\064\217\312\335\317\077\061\076\343\321\034\323\200\111\045\310
\227\265\235\232\231\115\260\074\370\112\000\233\144\335\237\071
\113\321\047\327\074
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Hellenic Academic and Research Institutions RootCA 2011"
# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research
# Institutions Cert. Authority,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research
# Institutions Cert. Authority,C=GR
# Not Valid Before: Tue Dec 06 13:49:52 2011
# Not Valid After : Mon Dec 01 13:49:52 2031
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2011"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
37610531452331710031332301241141265121056254332130
011110042115
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
1632371141131631331171351372272034357156313325311
END
CKA_ISSUER MULTILINE_OCTAL
\060\020\225\061\013\060\0011\006\003\125\004\006\023\002\107\122
\061\104\060\102\000\060\003\125\004\012\023\073\110\145\154\154\145
\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144
\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164
\165\161\155\151\156\163\040\103\145\162\164\056\040\101\165\164
\150\157\162\151\164\171\061\100\060\076\006\003\125\004\003\023
\067\10\145\154\154\145\156\151\143\040\101\143\141\144\145\155
\151\143\040\114\156\144\040\122\145\163\145\141\162\143\150\040
\111\156\163\164\151\164\164\151\157\156\163\040\122\157\157
\164\103\101\040\062\060\0611
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\100
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# Explicitly Distrust "MITM subCA 1 issued by Trustwave", Bug 724929
# Issuer: E=ca@trustwave.com,CN="Trustwave Organization Issuing CA, Level 2",O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Serial Number: 1800000005 (0x6b49d205)
# Not Before: Apr 7 15:37:15 2011 GMT
# Not After: Apr 4 15:37:15 2021 GMT
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "MITM subCA 1 issued by Trustwave"

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\153\111\322\005

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Explicitly Distrust "MITM subCA 2 issued by Trustwave", Bug 724929
# Issuer: E=ca@trustwave.com,CN="Trustwave Organization Issuing CA, Level 2",O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Serial Number: 1800000006 (0x6b49d206)
# Not Before: Apr 18 21:09:30 2011 GMT
# Not After: Apr 15 21:09:30 2021 GMT
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "MITM subCA 2 issued by Trustwave"

END

CKA_ISSUER MULTILINE_OCTAL
\060\201\253\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\023\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\023\020\07\03\150
\151\143\141\147\157\061\014\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\063\060\061\006\003\125\004
\003\023\052\124\162\165\163\164\167\141\166\145\040\111\162\147
\141\156\151\172\141\164\151\157\156\040\111\163\163\165\151\156
\147\040\103\101\054\040\114\145\166\145\154\040\062\061\037\060
\035\006\011\052\206\110\206\367\015\001\011\001\026\020\143\141
\100\164\162\165\163\164\167\141\166\145\056\143\157\155

END

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# Certificate "Actalis Authentication Root CA"

# Issuer: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=米兰,C=IT
# Serial Number: 57:0a:11:97:42:c4:e3:cc
# Subject: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=米兰,C=IT
# Not Valid Before: Thu Sep 22 11:22:02 2011
# Not Valid After: Sun Sep 22 11:22:02 2030

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Actalis Authentication Root CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\006\015\036\010\007\003\125\004\006\023\002\111\154\151\156
\015\113\014\143\157\023\007\125\004\006\023\002\111\154\151\156
\015\113\014\143\157\023\007\125\004\006\023\002\111\154\151\156
\015\113\014\143\157\023\007\125\004\006\023\002\111\154\151\156
\015\113\014\143\157\023\007\125\004\006\023\002\111\154\151\156
\015\113\014\143\157\023\007\125\004\006\023\002\111\154\151\156
\015\113\014\143\157\023\007\125\004\006\023\002\111\154\151\156
\015\113\014\143\157\023\007\125\004\006\023\002\111\154\151\156
\015\113\014\143\157\023\007\125\004\006\023\002\111\154\151\156

END
# Trust for “Actalis Authentication Root CA”
# Issuer: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Serial Number:57:0a:11:97:42:4c:e3:cc
# Subject: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Not Valid Before: Thu Sep 22 11:22:02 2011
# Not Valid After : Sun Sep 22 11:22:02 2030
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Actalis Authentication Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\363\163\263\207\006\132\050\204\212\362\363\112\316\031\053\335
\307\216\234\254
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\151\301\015\117\007\243\033\303\376\126\075\004\274\021\366\246
END
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\151\301\015\117\007\243\033\303\376\126\075\004\274\021\366\246
END
CKA_ISSUER MULTILINE_OCTAL
\060\153\060\101\13\060\011\006\003\125\004\006\023\002\111\124\061
\016\060\014\006\003\125\004\007\014\005\151\151\154\141\156\061
\043\060\041\006\003\125\004\012\014\032\101\143\164\141\154\151
\163\040\123\056\160\056\101\056\057\060\063\063\065\070\065\062
\060\071\066\067\061\047\060\045\056\003\125\004\030\014\036\101
\143\164\141\154\151\163\040\101\165\164\150\145\156\164\151\143
\141\164\151\157\156\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\127\012\021\227\102\304\343\314
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
Free text
# Trust for "Trustis FPS Root CA"

# Issuer: OU=Trustis FPS Root CA,O=Trustis Limited,C=GB
# Subject: OU=Trustis FPS Root CA,O=Trustis Limited,C=GB
# Not Valid Before: Tue Dec 23 12:14:06 2003
# Not Valid After : Sun Jan 21 11:36:54 2024

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustis FPS Root CA"

END

# Certificate "Buypass Class 2 Root CA"

# Issuer: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:38:03 2010
# Not Valid After : Fri Oct 26 08:38:03 2040

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE

# Certificate "Buypass Class 2 Root CA"
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Buypass Class 2 Root CA"
# Issuer: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Not Valid Before: Tue Oct 26 08:38:03 2010
# Not Valid After : Fri Oct 26 08:38:03 2040

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 2 Root CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\111\012\165\164\336\207\012\107\376\130\356\366\307\153\353\306
\013\022\100\231

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\106\247\322\376\105\373\144\132\250\131\122\023\31\170\104\233\051

END

CKA_ISSUER MULTILINE_OCTAL
\060\16\06\01\13\06\01\01\00\00\03\12\05\04\00\06\02\03\02\11\16\17\06\17\06\01\03\06\03\12\05\04\00\03\01\04\02\10\21\16\17\16\01\14\1163\163\040\103\154\141\163\163\040\062\040\022\157\157\164\040\03\101

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\002

END
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# Certificate "Buypass Class 3 Root CA"
#
# Issuer: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:28:58 2010
# Not Valid After : Fri Oct 26 08:28:58 2040
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 3 Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_VALUE MULTILINE_OCTAL
# Trust for "Buypass Class 3 Root CA"
# Issuer: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Not Valid Before: Tue Oct 26 08:28:58 2010
# Not Valid After : Fri Oct 26 08:28:58 2040

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 3 Root CA"


CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\332\372\367\372\146\204\354\006\217\024\120\275\307\302\201\245
\274\251\144\127
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\075\073\030\236\054\144\132\350\325\210\316\016\371\067\302\354
END
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061
\035\060\033\006\003\125\004\012\014\024\012\165\171\160\141\163
\163\040\101\123\055\071\070\063\061\066\063\062\067\061\040
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163
\040\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "T-TeleSec GlobalRoot Class 3"
#
# Issuer: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Not Valid After : Sat Oct 01 23:59:59 2033
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT_MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060
\035\060\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\151\123
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "T-TeleSec GlobalRoot Class 3"
# Issuer: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Not Valid After : Sat Oct 01 23:59:59 2033

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
# Certificate "EE Certification Centre Root CA"

# Issuer: E=pki@sk.ee,CN=EE Certification Centre Root CA,O=AS Sertifitseerimiskeskus,C=EE
# Subject: E=pki@sk.ee,CN=EE Certification Centre Root CA,O=AS Sertifitseerimiskeskus,C=EE
# Not Valid Before: Sat Oct 30 10:10:30 2010
# Not Valid After : Tue Dec 17 23:59:59 2030
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "EE Certification Centre Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\165\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\103\70\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\000\014\034\124\055\124\145\145\145\123
\145\143\040\010\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\063

END

# Certificate "T-TeleSec GlobalRoot Class 3"

# Issuer: T-TeleSec GlobalRoot Class 3,CN=T-TeleSec GlobalRoot Class 3,C=US
# Serial Number:03\030\143\006\003\125\004\006\023\002\105\105
# Subject: T-TeleSec GlobalRoot Class 3,CN=T-TeleSec GlobalRoot Class 3,C=US
# Not Valid Before: Thu May 30 02:49:08 2019
# Not Valid After : Wed Jun 26 02:49:08 2019
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\125\246\162\076\313\362\354\315\303\043\164\160\031\235\052\276
\021\343\201\321

END

# Certificate "DK Certification Institution Root CA"

# Issuer: DN=DK Certification Institution Root CA,C=DK
# Serial Number:00\002\001\000\003\143\013\012\014\010\015\006\003\125\004\006\023\002\105\105
# Subject: DN=DK Certification Institution Root CA,C=DK
# Not Valid Before: Thu Jan 03 00:00:00 2019
# Not Valid After : Thu Jan 03 00:00:00 2019
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DK Certification Institution Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\002\001\000\003\143\013\012\014\010\015\006\003\125\004\006\023\002\105\105
END

# Trust for "EE Certification Centre Root CA"
# Issuer: E=pki@sk.ee,CN=EE Certification Centre Root CA,O=AS Sertifitseerimiskeskus,C=EE
# Subject: E=pki@sk.ee,CN=EE Certification Centre Root CA,O=AS Sertifitseerimiskeskus,C=EE
# Not Valid Before: Sat Oct 30 10:10:30 2010
# Not Valid After: Tue Dec 17 23:59:59 2030
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "EE Certification Centre Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\311\250\271\347\125\200\136\130\343\123\167\247\045\353\257\303\173\047\314\327
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\10\136\210\324\175\032\112\176\375\204\056\122\353\001\324\157
END
CKA_ISSUER MULTILINE_OCTAL
\06\165\061\103\060\011\006\003\125\004\006\023\002\105\105\061
\04\20\040\006\003\125\004\012\140\031\101\123\040\123\145\162
\164\151\146\151\164\163\145\145\162\151\155\151\163\153\145\163
\153\165\163\061\050\060\046\006\003\125\004\003\014\037\105\105
\04\01\103\145\162\164\151\146\151\143\141\164\151\157\157\156\040\103
\145\156\164\162\145\040\122\157\157\164\040\103\101\061\030\060
\02\60\060\011\052\206\110\206\367\015\001\011\001\026\011\160\153
\151\100\163\153\056\145\145
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\02\02\02\02\02\02\02\02\02\02\02\02\02\02\02\02\02\02\02\02\02\02\02
\346\112
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Explicitly Distrust "TURKTRUST Mis-issued Intermediate CA 1", Bug 825022
# Issuer: O=T..RKTRUST Bilgi ..leti..im ve Bili..im G..venli..i Hizmetleri A...,C=TR,CN=T..RKTRUST Elektronik
# Sunucu Sertifikas..i Hizmetleri
# Serial Number: 2087 (0x827)
# Subject: CN=*.EGO.GOV.TR,OU=EGO BILGI ISLEM,O=EGO,L=ANKARA,ST=ANKARA,C=TR
# Not Valid Before: Mon Aug 08 07:07:51 2011
# Not Valid After: Tue Jul 06 07:07:51 2021
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TURKTRUST Mis-issued Intermediate CA 1"
CKA_ISSUER MULTILINE_OCTAL
\060\021254\061075\060073\006003\125004\003014064\124303
\1234\122113\124\122125\123\124040105154145153164162157
\156151153040123165156165143165040123145162164151
\146151153141163\304261\040110151172155145164154145
\16215061013\060003\1250004006023002124122061
\1360601340060312500040120141251124303234122113124
\122125123124040102151154147151040304260154145164
\15130523711511550401661450401021511541511305237151
\155040107303274166145156154151304237151040110151
\172155145164154145162151040101056305236056040050
\143051040113141163304261155040040062060060065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\0020020100047
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Explicitly Distrust "TURKTRUST Mis-issued Intermediate CA 2", Bug 825022
# Issuer: O=R..RKTRUST Bilgi ..leti..im ve Bili..im G..venli..i Hizmetleri A...,C=TR,CN=R..RKTRUST Elektronik
# Sunucu Sertifikas.., Hizmetleri
# Serial Number: 2148 (0x864)
# Subject: E=ileti@kktcmerkezbankasi.org,CN=e-islem.kktcmerkezbankasi.org,O=KKTC Merkez
# Bankasi,L=Lefkosa,ST=Lefkosa,C=TR
# Not Valid Before: Mon Aug 08 07:07:51 2011
# Not Valid After : Thu Aug 05 07:07:51 2021
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TURKTRUST Mis-issued Intermediate CA 2"
CKA_ISSUER MULTILINE_OCTAL
\060201254\061075\060073\006003\125004\003014064\124303
\1234\122113\124\122125\123\124040105154145153164162157
\156151153040123165156165143165040123145162164151
\146151153141163\304261\040110151172155145164154145
\16215061013\060003\1250004006023002124122061
\1360601340060312500040120141251124303234122113124
\122125123124040102151154147151040304260154145164
\15130523715115504016614504001021511541511305237151

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\155\040\107\303\274\166\145\156\154\151\304\237\151\040\110\151
\172\155\145\156\154\145\162\151\040\101\056\305\236\056\040\050
\143\051\040\113\141\163\304\261\155\040\040\062\060\060\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\011
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "D-TRUST Root Class 3 CA 2 2009"
#
# Issuer: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
# Serial Number: 623603 (0x983f3)
# Subject: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
# Not Valid Before: Thu Nov 05 08:35:58 2009
# Not Valid After : Mon Nov 05 08:35:58 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 2009"
CKA_SUBJECT MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\140\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\047\060\045\006\003\125\004\003\014
\036\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\140\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\047\060\045\006\003\125\004\003\014
\036\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\011
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\063\060\202\003\033\240\003\002\001\002\002\003\011
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "D-TRUST Root Class 3 CA 2 2009"
# Issuer: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
# Serial Number: 623603 (0x983f3)
# Subject: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
# Not Valid Before: Thu Nov 05 08:35:58 2009
# Not Valid After : Mon Nov 05 08:35:58 2029

END
Certificate "D-TRUST Root Class 3 CA EV 2009"

Issuer: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
Serial Number: 623604 (0x983f4)
Subject: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
Not Valid Before: Thu Nov 05 08:50:46 2009
Not Valid After: Mon Nov 05 08:50:46 2029

Class: CK_OBJECT_CLASS
Token: CK_TRUE
PrivateKey: CK_FALSE
Modifiable: CK_FALSE
Label: "D-TRUST Root Class 3 CA 2 EV 2009"
Certificate Type: CK_CERTIFICATE
Issuer: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
Serial Number: 623604 (0x983f4)
Subject: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
Not Valid Before: Thu Nov 05 08:50:46 2009
Not Valid After: Mon Nov 05 08:50:46 2029
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "D-TRUST Root Class 3 CA 2 EV 2009"
# Issuer: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
# Serial Number: 623604 (0x983f4)
# Not Valid Before: Thu Nov 05 08:50:46 2009
# Not Valid After : Mon Nov 05 08:50:46 2029

# CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 EV 2009"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\164\162\165\163\164\056\156\145\164\057\143\162\154\057\144\055
\164\162\165\163\164\137\162\157\157\164\137\134\154\141\163\163
\137\063\137\143\141\137\062\137\145\166\137\062\060\060\071\056
\143\162\154\060\150\066\011\052\206\110\206\367\015\000\101\103
\005\000\003\020\000\001\000\006\064\355\173\132\074\224\224\210\357
\032\021\165\007\057\263\337\074\372\036\121\046\353\207\366\051
\336\340\361\324\060\044\011\351\010\317\125\033\264\060\331\316
\032\376\006\121\246\025\244\055\357\262\113\277\040\050\045\111
\321\246\061\167\064\350\144\337\122\261\021\307\163\172\315\071
\236\302\255\124\161\041\362\132\153\257\337\074\116\125\257\262
\204\145\024\211\271\167\313\052\061\267\161\213\425\155\317\157\110
\224\062\106\157\347\161\121\242\024\246\204\031\067\007\362\003\310
\011\053\206\161\174\337\137\151\127\000\333\156\330\246\162\042

# CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 EV 2009"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\164\162\165\163\164\056\156\145\164\057\143\162\154\057\144\055
\164\162\165\163\164\137\162\157\157\164\137\134\154\141\163\163
\137\063\137\143\141\137\062\137\145\166\137\062\060\060\071\056
\143\162\154\060\150\066\011\052\206\110\206\367\015\000\101\103
\005\000\003\020\000\001\000\006\064\355\173\132\074\224\224\210\357
\032\021\165\007\057\263\337\074\372\036\121\046\353\207\366\051
\336\340\361\324\060\044\011\351\010\317\125\033\264\060\331\316
\032\376\006\121\246\025\244\055\357\262\113\277\040\050\045\111
\321\246\061\167\064\350\144\337\122\261\021\307\163\172\315\071
\236\302\255\124\161\041\362\132\153\257\337\074\116\125\257\262
\204\145\024\211\271\167\313\052\061\267\161\213\425\155\317\157\110
\224\062\106\157\347\161\121\242\024\246\204\031\067\007\362\003\310
\011\053\206\161\174\337\137\151\127\000\333\156\330\246\162\042

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Certificate "CA Disig Root R2"

# Issuer: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Serial Number:00:92:b8:88:db:b0:8a:c1:63
# Subject: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Not Valid Before: Thu Jul 19 09:15:30 2012
# Not Valid After: Sat Jul 19 09:15:30 2042

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CA Disig Root R2"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\052\060\050\006\003\125\004\003\014
\041\104\055\124\122\125\123\124\040\122\157\157\164\040\03\154
\141\163\163\040\063\040\013\101\040\062\040\105\126\040\062\060
\060\071
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\011\203\364
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Trust for "CA Disig Root R2"

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Open Source Used In HyperFlex HX Data Platform 4.5(2d)
# Issuer: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Serial Number:00:92:b8:88:db:0:8:ac:1:63
# Subject: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Not Valid Before: Thu Jul 19 09:15:30 2012
# Not Valid After : Sat Jul 19 09:15:30 2042
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKAModificarable CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CA Disig Root R2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\265\141\353\352\244\336\344\045\113\151\032\230\245\127\107\302
\064\307\331\161
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\046\001\373\330\047\247\027\232\105\124\070\032\103\001\073\003
END
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\056\163\056\061\031\060\027\006\003\125
\004\003\023\020\013\010\040\104\151\163\151\147\040\122\157\157
\164\040\122\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\222\270\210\333\260\212\301\143
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "ACCVRAIZ1"
#
# Issuer: C=ES,O=ACC,OU=PKIACC,CN=ACCVRAIZ1
# Serial Number:5e:c3:b7:64:43:7f:a4:e0
# Subject: C=ES,O=ACC,OU=PKIACC,CN=ACCVRAIZ1
# Not Valid Before: Thu May 05 09:37:37 2011
# Not Valid After : Tue Dec 31 09:37:37 2030
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE


# Trust for "ACCVRAIZ1"
# Issuer: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Serial Number:5e:c3:b7:a6:43:7f:a4:e0
# Subject: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Not Valid Before: Thu May 05 09:37:37 2011
# Not Valid After : Tue Dec 31 09:37:37 2030

# Certificate "TWCA Global Root CA"

# Issuer: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number: 3262 (0xcbe)
# Subject: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Not Valid After : Tue Dec 31 15:59:59 2030

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Global Root CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\121\013\060\11\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\023\011\124\101\111\111\127\101\116
\055\013\101\061\020\059\016\006\003\125\004\013\023\007\122\157
\157\164\040\010\010\016\006\003\125\004\013\023\023\023
\124\127\103\101\040\017\154\157\142\141\154\040\122\157\157\164
\040\103\101

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\121\013\060\11\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\023\011\124\101\111\111\127\101\116
\055\013\101\061\020\059\016\006\003\125\004\013\023\007\122\157
\157\164\040\010\010\016\006\003\125\004\013\023\023\023
\124\127\103\101\040\017\154\157\142\141\154\040\122\157\157\164
\040\103\101

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\014\276

END

CKA_VALUE MULTILINE_OCTAL
\060\020\005\010\060\202\003\051\124\000\03\002\001\002\002\002\014
\127\060\015\006\011\052\206\110\206\367\015\001\010\001\000\005\000
\060\121\013\060\11\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\023\011\124\101\111\111\127\101\116
\055\013\101\061\020\059\016\006\003\125\004\013\023\007\122\157
\157\164\040\010\010\016\006\003\125\004\013\023\023\023
\124\127\103\101\040\017\154\157\142\141\154\040\122\157\157\164
\040\103\101

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\014\276

END
END

CKA_NSS_Mozilla_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for “TWCA Global Root CA”
# Issuer: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number: 3262 (0xcbe)
# Subject: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Not Valid After : Tue Dec 31 15:59:59 2030
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Global Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
# Certificate "TeliaSonera Root CA v1"

# Issuer: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Subject: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Not Valid Before: Thu Oct 18 12:00:50 2007
# Not Valid After : Mon Oct 18 12:00:50 2032

CAK_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CAK_TOKEN CK_BBOOL CK_TRUE
CAK_PRIVATE CK_BBOOL CK_FALSE
CAK_MODIFIABLE CK_BBOOL CK_FALSE
CAK_LABEL UTF8 "TeliaSonera Root CA v1"

CAK_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CAK_SUBJECT MULTILINE_OCTAL
\060\061\063\060\011\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\023\011\124\101\111\113\017\011\116
\055\013\010\061\020\060\016\006\003\125\004\013\023\007\122\157
\157\164\040\103\010\061\034\060\032\006\003\125\004\003\023\023
\124\127\013\010\040\010\07\154\157\142\141\154\040\122\157\157\164
\040\103\010
END

CAK_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\014\276
END

CAK_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CAK_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CAK_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CAK_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Open Source Used In HyperFlex HX Data Platform 4.5(2d) 13065
# Trust for "TeliaSonera Root CA v1"
# Issuer: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Subject: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Not Valid Before: Thu Oct 18 12:00:50 2007
# Not Valid After : Mon Oct 18 12:00:50 2032
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TeliaSonera Root CA v1"
CKA_CERT_SHA1_HASH_MULTILINE_OCTAL
\103\023\273\226\361\325\206\233\301\116\152\222\366\317\366\064
\151\207\202\067
END
CKA_CERT_MD5_HASH_MULTILINE_OCTAL
\067\101\111\033\030\126\232\046\365\255\302\146\373\100\245\114
END
CKA_ISSUER_MULTILINE_OCTAL
\060\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154
\151\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004
\003\014\026\124\145\154\151\141\123\157\156\145\162\141\040\122
\157\157\164\040\103\101\040\166\061
END
CKA_SERIAL_NUMBER_MULTILINE_OCTAL
\002\021\000\225\276\026\240\367\056\106\361\173\071\202\162\372
\213\315\226
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "E-Tugra Certification Authority"
# Issuer: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBG Bili..im Teknolojileri ve Hizmetleri A.....L=Ankara,C=TR
# Serial Number:6a:68:3e:9c:51:9b:cb:53
# Subject: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBG Bili..im Teknolojileri ve Hizmetleri A.....L=Ankara,C=TR
# Not Valid Before: Tue Mar 05 12:09:48 2013
# Not Valid After : Fri Mar 03 12:09:48 2023
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-Tugra Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT_MULTILINE_OCTAL
END

# Trust for "E-Tugra Certification Authority"
# Issuer: CN=E-Tugra Certification Authority, OU=E-Tugra Sertifikasyon Merkezi, O=E-Tu..ra EBG Bili..im Teknolojileri ve Hizmetleri A...., L=Ankara, C=TR
# Serial Number:6a:68:3e:9c:51:9b:cb:53
# Subject: CN=E-Tugra Certification Authority, OU=E-Tugra Sertifikasyon Merkezi, O=E-Tu..ra EBG Bili..im Teknolojileri ve Hizmetleri A...., L=Ankara, C=TR

# Trust for "E-Tugra Certification Authority"
# Issuer: CN=E-Tugra Certification Authority, OU=E-Tugra Sertifikasyon Merkezi, O=E-Tu..ra EBG Bili..im Teknolojileri ve Hizmetleri A...., L=Ankara, C=TR
# Serial Number:6a:68:3e:9c:51:9b:cb:53
# Subject: CN=E-Tugra Certification Authority, OU=E-Tugra Sertifikasyon Merkezi, O=E-Tu..ra EBG Bili..im Teknolojileri ve Hizmetleri A...., L=Ankara, C=TR

# Trust for "E-Tugra Certification Authority"
# Issuer: CN=E-Tugra Certification Authority, OU=E-Tugra Sertifikasyon Merkezi, O=E-Tu..ra EBG Bili..im Teknolojileri ve Hizmetleri A...., L=Ankara, C=TR
# Serial Number:6a:68:3e:9c:51:9b:cb:53
# Subject: CN=E-Tugra Certification Authority, OU=E-Tugra Sertifikasyon Merkezi, O=E-Tu..ra EBG Bili..im Teknolojileri ve Hizmetleri A...., L=Ankara, C=TR
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-Tugra Certification Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\121\306\347\010\111\006\156\363\222\324\134\240\015\155\243\142
\217\303\122
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\270\241\003\143\260\275\041\161\160\212\157\023\072\273\171\111
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\262\061\013\006\000\125\004\006\023\002\124\122
\061\017\060\015\006\003\125\004\007\014\006\101\156\153\141\162
\141\061\100\006\007\060\000\03\125\004\012\014\067\105\055\124\165
\304\237\162\141\040\105\102\017\040\102\151\154\151\305\237\151
\155\040\124\145\153\156\157\154\151\151\154\145\162\151\040
\166\145\040\110\151\172\155\145\164\154\145\162\151\040\101\056
\305\236\056\061\046\060\044\006\000\03\125\004\013\140\335\105\055
\124\165\147\162\141\040\123\145\162\164\151\146\151\153\141\163
\171\157\156\040\115\145\162\153\145\172\151\061\105\050\060\046\006
\003\125\004\030\140\037\105\055\124\165\147\162\141\040\103\145
\162\164\151\146\151\143\144\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\152\150\076\234\121\123\313\123
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "T-TeleSec GlobalRoot Class 2"
#
# Issuer: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services
# GmbH,C=DE
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services
# GmbH,C=DE
# Not Valid After : Sat Oct 01 23:59:59 2033
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "T-TeleSec GlobalRoot Class 2"
# Issuer: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services
# Not Valid After : Sat Oct 01 23:59:59 2033
# Fingerprint (MD5): 2B:9B:9E:E4:7B:6C:1F:00:72:1A:CC:C1:77:79:DF:6A
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\131\015\055\175\210\117\100\056\141\176\124\062\027\145\317\027\330\224\351
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\053\233\236\344\173\154\037\000\162\032\314\031\167\171\337\152
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\116
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\060\1045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Atos TrustedRoot 2011"
# Issuer: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Serial Number: 5c:33:cb:62:2c:5f:b3:32
# Subject: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Not Valid Before: Thu Jul 07 14:58:30 2011
# Not Valid After : Tue Dec 31 23:59:59 2030

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Atos TrustedRoot 2011"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\074\061\036\060\034\006\003\125\004\003\014\025\101\164\157
\163\040\124\162\165\163\164\145\144\122\157\157\164\040\062\060\061\061\015\060\013\006\003\125\004\012\014\004\101\164\157
\163\061\013\060\011\006\003\125\004\006\023\002\104\105
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\074\061\036\060\034\006\003\125\004\003\014\025\101\164\157
\163\040\124\162\165\163\164\145\144\122\157\157\164\040\062\060\061\061\015\060\013\006\003\125\004\012\014\004\101\164\157
\163\061\013\060\011\006\003\125\004\006\023\002\104\105
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\010\134\063\313\142\054\137\263\062
END

CKA_VALUE MULTILINE_OCTAL
\060\202\003\167\060\202\002\137\240\003\020\001\002\002\010\134
\063\313\142\054\137\263\062\060\015\006\011\052\066\110\206\367
\015\001\010\013\050\005\006\007\046\010\036\060\034\006\003\125\004
\003\014\025\101\164\157\163\040\124\162\165\163\164\145\144\122\157\157\164\040\062\060\061\061\015\060\013\006\003\125\004
\012\014\004\010\114\157\163\060\011\006\003\125\004\006
\023\002\104\105\060\036\027\015\061\061\060\067\060\067\061\064
\065\070\063\060\013\020\071\157\063\060\061\062\063\061\062\063\065
\071\065\071\132\060\074\061\036\060\034\006\003\125\004\003\014
\025\101\164\157\163\040\124\162\165\163\164\145\144\122\157\157
\164\040\062\060\061\061\015\060\013\006\003\125\004\012\014
\004\011\164\157\163\060\011\006\003\125\004\006\023\002
\104\010\060\202\000\014\026\015\006\011\052\206\110\206\367\015
\001\010\010\005\000\003\020\001\017\000\006\020\001\012\002\020
\001\010\002\022\205\073\227\157\052\073\056\073\137\246\363\051
\065\276\317\030\025\047\062\252\333\137\011\155\240\076\032\107\271\274
\232\337\362\376\314\076\107\350\172\226\302\044\216\065\364\251
# Trust for "Atos TrustedRoot 2011"

# Issuer: C=DE,O=Atos,CN=Atos TrustedRoot 2011

# Serial Number:5c:33:cb:62:2c:5f:b3:32

# Subject: C=DE,O=Atos,CN=Atos TrustedRoot 2011

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Open Source Used In HyperFlex HX Data Platform 4.5(2d) 13077
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Atos TrustedRoot 2011"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
053\261\365\076\125\014\035\305\361\324\346\267\152\106\113\125
\006\002\254\041
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\256\271\304\062\113\254\177\135\146\314\167\224\273\052\167\126

END

CKA_ISSUER MULTILINE_OCTAL
\060\074\061\036\060\034\006\003\125\004\003\014\025\101\164\157
\163\040\124\161\165\163\164\145\144\122\157\157\164\040\062\060
\061\061\061\060\060\013\006\003\125\004\012\014\004\101\164\157
\163\061\013\060\011\006\003\125\004\006\023\002\104\105

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\134\063\313\142\054\137\263\062

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRusted_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRusted_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "QuoVadis Root CA 1 G3"
#
# Issuer: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 17:27:44 2012
# Not Valid After : Sun Jan 12 17:27:44 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 1 G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
# Trust for "QuoVadis Root CA 1 G3"
# Issuer: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 17:27:44 2012
# Not Valid After : Sun Jan 12 17:27:44 2042

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 1 G3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# Certificate "Quo Vadis Root CA 2 G3"

# Issuer: CN=Quo Vadis Root CA 2 G3,O=Quo Vadis Limited,C=BM
# Subject: CN=Quo Vadis Root CA 2 G3,O=Quo Vadis Limited,C=BM
# Not Valid Before: Thu Jan 12 18:59:32 2012
# Not Valid After : Sun Jan 12 18:59:32 2042
# Fingerprint (SHA-256):

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Quo Vadis Root CA 2 G3"
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061\031\060\027\006\003\125\004\012\023\020\0121\165\157\126\141\144\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003\125\004\003\023\025\121\165\157\126\141\144\151\163\040\103\101\040\062\040\107\063

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\104\127\064\044\133\201\211\123\065\362\316\270\053\073\133\247\046\360\165\050

END

CKA_VALUE MULTILINE_OCTAL
\060\022\005\110\124\003\000\120\000\120\124\003\002\000\120\002\000\124\014\104\127\064\044\133\201\121\123\065\362\316\270\053\073\133\247\046\346\165\050\006\000\120\006\110\102\106\367\015\000\101\100\113\005\000\060\110\061\103\060\011\006\003\125\004\006\023\002\102\115\061\031\060\027\006\003\125\004\012\023\020\0121\165\157\126\141\144\151\163\040\103\101\040\062\040\107\063

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE

# Trust for "QuoVadis Root CA 2 G3"
# Issuer: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 18:59:32 2012
# Not Valid After : Sun Jan 12 18:59:32 2042
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2 G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\011\074\141\363\213\213\334\175\125\337\165\070\002\005\000\341\045\365\310\066
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\257\014\206\156\002\005\000\341\045\365\310\066
END
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157\157\164\040\103\101\040\062\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\104\127\064\044\133\201\211\233\065\362\133\247\046\360\165
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "QuoVadis Root CA 3 G3"
#
# Issuer: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 20:26:32 2012
# Not Valid After : Sun Jan 12 20:26:32 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3 G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003\125\004\003\023\025\121\165\157\126\141\144\144\151\163\040\122\157
# Trust for "QuoVadis Root CA 3 G3"
# Issuer: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 20:26:32 2012
# Not Valid After : Sun Jan 12 20:26:32 2042
# Fingerprint (SHA-256):
# CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 "QuoVadis Root CA 3 G3"
# CKA_CERT_SHA1_HASH MULTILINE_OCTAL
# CKA_CERT_MD5_HASH MULTILINE_OCTAL
# CKA_ISSUER MULTILINE_OCTAL
# CKA_SERIAL_NUMBER MULTILINE_OCTAL
# CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

END
# Certificate "DigiCert Assured ID Root G2"

# Issuer: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\212\23\021\060\015
\025\060\023\006\003\125\004\012\23\014\014\151\147\151\103\145
\162\164\040\011\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\167\167\167\167\167\167\167\167\167\167\167\167
\155\061\044\060\042\006\003\125\004\003\023\033\014\151\147\151
\103\145\162\164\040\010\11\163\163\163\163\163\163\163
\020\167\167\167\167\167\167\167\167\167\167\167\167\167\167
\155\061\044\060\042\006\003\125\004\003\023\033\014\151\147\151
\103\145\162\164\040\010\11\163\163\163\163\163\163\163
\122\157\157\164\040\107\062
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\212\23\021\060\015
\025\060\023\006\003\125\004\012\23\014\014\151\147\151\103\145
\162\164\040\011\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\167\167\167\167\167\167\167\167\167\167\167
\155\061\044\060\042\006\003\125\004\003\023\033\014\151\147\151
\103\145\162\164\040\010\11\163\163\163\163\163\163\163
\122\157\157\164\040\107\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\001\023\003\047\072\326\071\147\352\147\043\277\303\257\232
\364\113
END

CKA_VALUE MULTILINE_OCTAL
\060\021\020\003\020\020\002\020\020\002\020\020\002\020\020\002
\176\240\003\002\000\001\000\000\002\020\013
\223\034\072\326\071\147\352\147\043\277\303\257\232\364\113
\015\006\011\052\026\011\020\036\071\015\001\001\013\005\000\006\014
\061\013\060\001\11\006\003\125\004\003\023\012\025\012\025\012
\023\006\003\012\040\010\014\151\147\151\103\145\162\164
\040\111\156\143\061\03\060\027\006\003\125\004\013\023\020\016
\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "DigiCert Assured ID Root G2"
# Issuer: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):

# Trust Server Authentication
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G2"

# Certificate SHA1 Hash (MULTILINE_OCTAL)
\227\122\125\036\203\265\124\040\003\356\256\300\117\126\336\067
\314\033\177\252\004\047\273\323\167\270\142\333\027\174\234\050
\042\023\163\154\317\046\365\212\051\347
END

# Certificate MD5 Hash (MULTILINE_OCTAL)
\227\122\125\036\203\265\124\040\003\356\256\300\117\126\336\067
\314\033\177\252\004\047\273\323\167\270\142\333\027\174\234\050
\042\023\163\154\317\046\365\212\051\347
END

# Certificate Issuer (MULTILINE_OCTAL)
\227\122\125\036\203\265\124\040\003\356\256\300\117\126\336\067
\314\033\177\252\004\047\273\323\167\270\142\333\027\174\234\050
\042\023\163\154\317\046\365\212\051\347
END

# Certificate Serial Number (MULTILINE_OCTAL)
\227\122\125\036\203\265\124\040\003\356\256\300\117\126\336\067
\314\033\177\252\004\047\273\323\167\270\142\333\027\174\234\050
\042\023\163\154\317\046\365\212\051\347
END

Open Source Used In HyperFlex HX Data Platform 4.5(2d) 13091
# Certificate "DigiCert Assured ID Root G3"

# Issuer: CN=DigiCert Assured ID Root G3,O=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Assured ID Root G3,O=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038

CKA_CLASS C_K_OBJECT_CLASS C_KOCERTIFICATE
CKA_TOKEN C_K_BBOOL C_K_TRUE
CKA_PRIVATE C_K_BBOOL C_K_FALSE
CKA_MODIFIABLE C_K_BBOOL C_K_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G3"
CKA_CERTIFICATE_TYPE C_K_CERTIFICATE_TYPE C_KC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\010\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\060\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\060\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\063
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\145\061\130\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\010\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\060\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\060\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\013\241\132\372\035\337\240\265\111\104\257\315\044\240
\154\354
END

CKA_VALUE MULTILINE_OCTAL
\060\202\002\106\060\202\001\315\240\003\002\001\002\002\020\013
\241\132\372\035\337\240\265\111\104\257\315\044\240\154\354\060
\012\006\010\052\026\110\316\075\004\003\003\060\145\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\025\060\023\006\003
\125\004\012\023\014\104\151\147\151\103\145
\143\061\030\060\202\060\003\125\004\013\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\063
END

Open Source Used In HyperFlex HX Data Platform 4.5(2d) 13092
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "DigiCert Assured ID Root G3"
# Issuer: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G3"
Open Source Used In HyperFlex HX Data Platform 4.5(2d)  13094

# Certificate "DigiCert Global Root G2"

# Issuer: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):

# CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\365\027\242\117\232\110\306\311\370\242\000\046\237\334\017\110\054\253\060\211
END

# CKA_CERT_MD5_HASH MULTILINE_OCTAL
\174\177\145\061\014\201\337\215\272\076\231\342\134\255\156\373
END

# CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\069\027\006\003\125\004\013\023
\020\167\167\167\167\156\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\033\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\063
END

# CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\013\241\132\372\035\337\240\265\111\104\257\315\044\240
\154\354
END

# CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\069\027\006\003\125\004\013\023
\020\167\167\167\167\156\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\033\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\063
END

# CKA_SERIALIZATION_OCTAL
\002\020\013\241\132\372\035\337\240\265\111\104\257\315\044\240
\154\354
END

# CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
\264\043\273\114\155\105\360\366\251\262\225\060\264\375\114\125
\214\047\112\270\024\174\202\235\315\163\222\323\026\112\006\014
\214\120\322\171\036\011\276\027\241\346\041\312\375\203\345\020
\274\203\245\012\304\147\050\366\163\024\204\075\106\166\303\207
\024\211\040\164\115\257\017\105\014\246\111\241\272\273\234\305
\261\063\230\051\205\002\003\001\000\001\243\102\060\100\060\017
\006\003\125\035\023\000\100\1\377\004\000\050\060\003\000\100\1\377\060
\016\006\000\031\250\035\017\001\000\137\077\004\004\003\002\000\120\060\060
\035\006\000\031\250\035\016\000\040\026\004\002\241\160\042\124\040\030\0225
\246\343\1563\461\017\372\372\273\022\355\006\027\217\071\106\000\15
\006\011\052\206\110\206\367\015\001\010\113\013\005\000\003\202\001
\001\000\140\147\050\224\157\016\110\143\353\061\335\352\147\030
\325\211\117\50\074\030\025\123\112\177\351\276\333\053\027\337\260\137
\163\167\052\062\023\071\120\1\147\102\204\043\362\105\147\065\354
\210\277\370\217\260\141\014\064\244\256\040\114\204\306\033\337
\065\341\166\331\337\246\102\273\307\104\010\206\177\066\164\044
\132\322\154\015\024\131\106\275\362\111\335\266\037\311\263\105
\107\052\075\231\057\273\134\273\265\324\040\314\231\137\123\106
\025\333\150\233\360\036\060\325\076\061\342\215\204\236\343\212
\332\322\226\076\065\023\245\137\360\037\161\120\160\107\101\021
\127\031\116\203\012\256\006\030\244\252\230\207\057\033\045\237\165
\362\261\216\231\241\157\023\261\101\161\137\261\110\052\310\117\020
\040\125\327\363\024\105\345\340\104\364\352\207\225\062\223\016
\376\123\106\372\054\235\377\213\042\271\113\331\111\105\244\336
\244\270\232\130\335\033\175\122\237\216\131\103\210\201\244\326
\0463\251\157\255\335\015\306\067\175\355\003\222\033\345\167\137
\166\356\074\215\304\135\126\133\242\331\146\156\263\065\067\345
\062\266
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "DigiCert Global Root G2"
# Issuer: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After: Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
# Certificate "DigiCert Global Root G3"

# Issuer: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

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\364\210\066\214\210\047\273\346\210\215\120\205\247\143\371\236
\062\336\146\223\017\361\314\261\011\217\335\154\253\372\153\177
\240\002\060\071\146\133\302\144\215\270\023\120\334\250\325\111
\242\235\307\334\321\111\177\027\001\270\310\026\217\116\214\210
\053\250\232\251\122\305\321\000\275\370\124\342\232\345\133\174
\263\047\027
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "DigiCert Global Root G3"
# Issuer: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After: Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\176\004\336\211\152\076\146\155\000\346\207\323\077\372\331\073
\350\075\064\236
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\365\135\244\120\245\373\050\176\036\017\015\314\226\127\126\312
END

CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\005\125\126\274\362\136\244\065\065\303\244\017\325\253
\105\162
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
Open Source Used In HyperFlex HX Data Platform 4.5(2d) 13101
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "DigiCert Trusted Root G4"
# Issuer: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
"\%230\55\\254\112\262\\242\\260\\326\\176\021\\222\\351\056\\272\\236\\056\\232\\162\261\\275\\031\\104\\154\\141\\065\\242\\232\\264\\026\\020\\215\\111\\322\\141\\341\\327\\076\\244\\032\\350\\050\\070\\363\\425\\256\\141\\035\\020\\033\\052\\244\\231\\172\\305\\376\\005\\246\\341\\303\\036\\236\\256\\256\\217\\053\\272\\075\\231\\370\\330\\163\\011\\130\\106\\156\\246\\234\\364\\327\\047\\323\\225\\332\\672\\303\\162\\034\\323\\163\\340\\242\\107\\231\\003\\070\\135\\325\\111\\171\\000\\051\\034\\307\\345\\233\\304\\034\\007\\044\\151\\127\\170\\262\\071\\374\\072\\204\\240\\265\\234\\174\\215\\277\\056\\262\\142\\047\\267\\070\\133\\027\\030\\256\\275\\074\\011\\150\\377\\204\\233\\074\\325\\326\\013\\003\\034\\333\\127\\236\\024\\367\\321\\135\\117\\310\\275\\207\\043\\267\\266\\111\\103\\171\\205\\134\\272\\533\\222\\013\\241\\306\\350\\150\\250\\114\\026\\261\\032\\231\\101\\235\\123\\054\\222\\273\\241\\011\\030\\165\\014\\145\\250\\173\\313\\043\\267\\032\\302\\050\\205\\030\\033\\177\\320\\053\\142\\357\\244\\173\\011\\221\\230\\147\\214\\024\\001\\135\\150\\006\\152\\143\\041\\165\\003\\200\\210\\212\\156\\201\\306\\205\\362\\251\\224\\005\\347\\364\\245\\044\\020\\107\\203\\312\\315\\364\\215\\171\\130\\261\\006\\233\\347\\032\\052\\331\\123\\500\\1327\\224\\175\\355\\003\\1123\\126\\360\\333\\350\\251\\001\\076\\365\\126\\231\\331\\036\\216\\111\\075\\273\\345\\011\\271\\340\\117\\111\\122\\220\\75\\262\\202\\100\\031\\314\\131\\306\\346\\072\\335\\220\\565\\151\\074\\154\\225\\261\\375\\252\\035\\173\\177\\206\\270\\036\\160\\62\\106\\373\\373\\023\\231\\165\\177\\114\\213\\113\\160\\143\\376\\000\\064\\010\\160\\301\\033\\271\\241\\335\\246\\160\\034\\200\\042\\63\\101\\274\\351\\200\\221\\352\\144\\234\\172\\341\\042\\003\\251\\234\\156\\157\\016\\145\\117\\154\\207\\207\\136\\363\\156\\240\\371\\165\\245\\233\\100\\350\\123\\262\\047\\235\\112\\271\\300\\167\\041\\215\\377\\207\\362\\336\\274\\214\\357\\0273\\373\\267\\111\\013\\321\\362\\156\\060\\013\\032\\016\\116\\166\\355\\021\\374\\365\\351\\126\\262\\175\\277\\307\\155\\012\\223\\214\\245\\320\\300\\266\\035\\276\\070\\116\\224\\242\\327\\156\\154\\013\\320\\221\\174\\372\\040\\363\\304\\444\\345\\315\\015\\250\\313\\221\\222\\261\\174\\205\\354\\265\\024\\151\\146\\016\\202\\347\\315\\316\\030\\055\\246\\121\\177\\041\\301\\065\\123\\205\\006\\112\\135\\237\\255\\273\\033\\137\\164\\END\\CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE\\CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE\\CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE\\# Trust for "COMODO RSA Certification Authority"\\# Issuer: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB\\# Serial Number:4c:aa:f9:ca:db:63:6f:e0:1f:f7:4e:d8:5b:03:86:9d\\# Subject: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB\\# Not Valid Before: Tue Jan 19 00:00:00 2010\\# Not Valid After : Mon Jan 18 23:59:59 2038\\# Fingerprint (SHA-256): 52:F0:E1:C4:E5:8E:C6:29:29:1B:60:31:7F:07:46:71:B8:5D:7E:AE:80:5B:07:27:34:63:53:4B:32:B4:02:34\\# Fingerprint (SHA1): AF:E5:D2:44:A8:D1:19:42:30:FF:47:9F:E2:F8:97:BB:CD:7A:8C:B4\\CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST\\CKA_TOKEN CK_BBOOL CK_TRUE
# Certificate "USERTrust RSA Certification Authority"

# Issuer: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New
# Jersey,C=US
# Subject: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New
# Jersey,C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After: Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust RSA Certification Authority"
CKA_CERTIFICATE_TYPE

CKA_SUBJECT

MULTILINE_OCTAL

060201210061010100600312500400060230021251123
060201210061010100600312500400060230021251123
060201210061010100600312500400060230021251123
060201210061010100600312500400060230021251123
060201210061010100600312500400060230021251123
060201210061010100600312500400060230021251123
END

CKA_ID

UTF8 "0"

CKA_ISSUER

MULTILINE_OCTAL

060201210061010100600312500400060230021251123
060201210061010100600312500400060230021251123
060201210061010100600312500400060230021251123
060201210061010100600312500400060230021251123
060201210061010100600312500400060230021251123
060201210061010100600312500400060230021251123
END

CKA_SERIAL_NUMBER

MULTILINE_OCTAL

0020020000137511550603742433121212500332741440160165003055060
001500601105200611020613670150010010140050000600201
END

CKA_VALUE

MULTILINE_OCTAL

060201210061010100600312500400060230021251123
060201210061010100600312500400060230021251123
060201210061010100600312500400060230021251123
060201210061010100600312500400060230021251123
060201210061010100600312500400060230021251123
060201210061010100600312500400060230021251123
END

Open Source Used In HyperFlex HX Data Platform 4.5(2d) 13108
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "USERTrust RSA Certification Authority"
# Issuer: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Subject: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
Open Source Used In HyperFlex HX Data Platform 4.5(2d)  13111

# Certificate "$USERTrust ECC Certification Authority"
#
# Issuer: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Subject: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038

CKA_LABEL UTF8 "USERTrust RSA Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\053\217\033\127\063\015\273\242\320\172\154\121\367\016\351\015\332\271\255\216
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\033\376\151\321\221\267\031\063\243\162\250\017\341\125\345\265
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123\061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040\122\123\101\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\001\375\155\060\374\243\312\121\125\033\274\144\016\055
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust ECC Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\033\376\151\321\221\267\031\063\243\162\250\017\341\125\345\265
END

# Certificate "$USERTrust ECC Certification Authority"
#
# Issuer: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Subject: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust ECC Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
Open Source Used In HyperFlex HX Data Platform 4.5(2d) 13113

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```plaintext
# Trust for "USERTrust ECC Certification Authority"
# Issuer: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Subject: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust ECC Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL

END
```

---

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "USERTrust ECC Certification Authority"
# Issuer: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Subject: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust ECC Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL

END
```
END

CKA_ISSUER MULTILINE_OCTAL
\060\020\121\010\061\013\060\001\11\000\000\031\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\17\010\024\060\022\006\003\125\004\007\023\013
\112\145\162\163\145\17\040\103\151\164\171\061\036\060\034\006
\003\125\004\012\023\025\124\150\145\040\012\123\105\122\124\122
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\164
\105\103\103\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\134\213\231\305\132\224\305\132\224\161\126\336\315\211\200
\314\046
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "GlobalSign ECC Root CA - R4"
#
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After : Tue Jan 19 03:14:07 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\044\060\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\031\040\122\157\157\164
\040\103\101\040\055\040\122\064\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
# Trust for "GlobalSign ECC Root CA - R4"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After: Tue Jan 19 03:14:07 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\151\151\126\056\100\200\364\044\241\347\031\237\024\272\363\356
\130\253\152\273
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\040\360\047\150\321\176\240\235\016\346\052\312\337\134\211\216
END
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\044\060\042\000\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\040\122\157\157\164
\040\103\101\040\055\040\122\064\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\030\203\012\107\154\157\142\141\154\123\151
\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\052\070\244\034\226\012\004\336\102\262\050\245\013\350
\064\230\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# # Certificate "GlobalSign ECC Root CA - R5"
#
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After: Tue Jan 19 03:14:07 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R5"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL

END
# Trust for "GlobalSign ECC Root CA - R5"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After : Tue Jan 19 03:14:07 2038
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R5"
CKA_ISSUER MULTILINE_OCTAL
\037\044\306\060\315\244\030\357\040\151\137\255\117\335\137\106
\072\033\151\252
END
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\037\044\306\060\315\244\030\357\040\151\137\255\117\335\137\106
\072\033\151\252
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\237\255\073\034\002\036\212\272\027\164\070\201\014\242\274\010
END
CKA_ISSUER_MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\034\122\157\157\164
\040\103\101\040\055\040\122\065\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\000\230\242\071
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Staat der Nederlanden Root CA - G3"
#
# Issuer: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Serial Number: 10003001 (0x98a239)
# Subject: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Not Valid Before: Thu Nov 14 11:28:42 2013
# Not Valid After : Mon Nov 13 23:00:00 2028
# Fingerprint (SHA-256):
Fingerprint (SHA-1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden Root CA - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\000\023\002\116\140\061
\036\060\034\006\003\125\004\012\140\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\053\060\051\006\003\125\004\003\014\042\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\000\023\002\116\114\061
\036\060\034\006\003\125\004\012\140\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\053\060\051\006\003\125\004\003\014\042\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\000\230\242\071
END

Open Source Used In HyperFlex HX Data Platform 4.5(2d) 13119
\016\132\107\266\357\227\141\165\117\331\137\363\307\262\303\324\335
\135\111\263\251\112\313\146\204\202\232\253\134\240\334\337\156\167
\006\321\161\165\353\101\127\157\257\071\167\133\002\003\001\000\001
\243\102\060\100\060\017\006\003\125\303\230\001\000\137\77\004\005
\060\003\000\010\137\77\006\016\006\003\125\303\051\170\001\001\137\77\004
\004\003\002\001\006\060\035\006\003\125\303\016\004\026\004\024
\124\255\372\307\222\127\256\312\065\234\056\022\373\344\272\135
\040\334\224\127\060\015\006\011\052\206\110\206\367\15\001\001
\013\005\000\003\202\002\001\000\006\023\123\350\056\231\016\360\16
\073\320\000\107\212\124\347\007\367\172\370\347\232\337\120\103
\123\227\052\075\312\074\107\230\056\334\105\173\361\222\336\141
\332\220\045\026\145\300\237\124\135\016\003\073\133\167\002\234
\204\266\015\230\137\064\335\073\143\002\033\030\050\021\030\224\340\51
\056\051\342\310\030\001\362\063\335\025\140\111\010\136\145
\147\306\315\353\323\266\053\247\275\314\321\016\160\137\270\004\3
\321\133\221\116\012\236\010\172\234\353\114\069\60\013\242\337\374
\042\227\367\140\135\352\051\057\130\262\275\130\275\215\226\117
\200\015\267\71\117\073\051\121\027\241\074\164\042\320\374\007\177
\200\034\304\254\367\152\301\160\060\260\351\216\151\342\054\151
\201\022\440\112\272\335\376\115\030\023\214\224\130\000\106\040\257
\234\040\307\023\365\067\125\111\057\106\324\303\360\240\226\002\017
\063\305\161\163\323\060\043\175\224\267\375\072\323\011\203\006\041
\375\140\075\256\062\300\322\335\262\152\246\360\347\264\202\174\012
\314\160\311\171\200\370\376\114\367\065\204\031\120\061\337\012
\331\327\177\233\366\024\223\215\330\055\112\355\101\140\024\060
\321\215\020\110\125\063\203\043\000\020\041\033\061\145\335\335\122\167
\332\201\153\262\250\372\001\107\271\226\352\052\154\147\227\211
\224\236\274\323\411\242\325\344\152\170\357\112\227\053\232\075\100
\176\036\300\165\322\156\373\1150\060\035\0440\212\037\371\1111\065
\232\032\054\331\263\225\071\235\036\223\67\246\271\145\057\334
\075\155\072\110\140\010\033\344\440\050\022\050\276\175\065\134\352
\340\026\176\023\033\015\232\076\327\236\374\055\165\262\301\024
\325\043\030\033\333\133\157\013\076\170\050\153\366\063\215\026\267
\110\034\270\032\020\010\171\173\301\103\115\250\004\027\070\112\121
\325\131\242\111\164\323\237\276\061\123\327\036\155\267\210\044
\157\140\221\244\020\051\133\126\101\274\320\104\253\152\023\276
\321\054\130\067\022\063\130\262\067\143\334\023\365\224\035\077
\100\121\365\117\365\072\355\103\053\302\036\050\262\225\172
\307\176\012\161\223\156\113\025\267\060\337\252\355\127\205\110
\254\035\152\350\071\1113\444\341\1710\270\316\005\277\241\014
\367\200\173\041\147\047\060\131
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Staat der Nederlanden Root CA - G3"
# Issuer: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
Open Source Used In HyperFlex HX Data Platform 4.5(2d)  13126

# Certificate "IdenTrust Commercial Root CA 1"
#
# Issuer: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Serial Number:0a:01:42:80:00:00:01:45:23:c8:44:b5:00:00:00:02
# Subject: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 18:12:23 2014
# Not Valid After : Mon Jan 16 18:12:23 2034

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\200\265\000\002
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Commercial Root CA 1"

CKA_VALUE MULTILINE_OCTAL
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040\105\126\040\122\157\157\164\040\103\1101
END

Open Source Used In HyperFlex HX Data Platform 4.5(2d)  13126
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "IdenTrust Commercial Root CA 1"
# Issuer: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Serial Number:0a:01:42:80:00:00:01:45:23:c8:44:b5:00:00:00:02
# Subject: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
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CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "IdenTrust Public Sector Root CA 1"
# Issuer: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Serial Number:0a:01:42:80:00:00:00:01:45:23:cf:46:7c:00:00:00:02
# Subject: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 17:53:32 2014
# Not Valid After : Mon Jan 16 17:53:32 2034
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Public Sector Root CA 1"

END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Entrust Root Certification Authority - G2"
#
# Issuer: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.".,C=US
# Serial Number: 1246989352 (0x4a538c28)
# Subject: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.".,C=US
# Not Valid Before: Tue Jul 07 17:25:54 2009
# Not Valid After : Sat Dec 07 17:55:54 2030
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\020\276:06\013:06:00\011:00:00\003:125:00\004:00:02:03\002:125:123
\061:026:06\006:024:06:00:00\013:125:00\004:012:023:015:10\051:156:16\162:165
\163:164:05\040:01\111:156:14\305:156:01:10\050:064:00:00\003:125:00\004
\155:163:06\017:10\060:067:00:00\003:125:00\004:13\023:060:050:143:051
\040:062:06\006:060\071:04\0:10\51:156:16\162:165:163:164:05\40:111
\156:14\305:040:05\55:040:146:157:16\204:0141:165:16\150:157:162
\060:00\000:003:125:00\004:003\023\051:10\51:156:16\162:165:163:164:040\040
\062
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\020\276:06\013:06:00\011:00:00\003:125:00\004:00:06\023:002:125:123
\061:026:06\006:024:06:00:00\013:125:00\004:012:023:015:10\051:156:16\162:165
\163:164:05\040:01\111:156:14\305:156:01:10\050:060:060:064:00:00\003:125:00\004
\155:163:06\017:10\060:067:00:00\003:125:00\004:13\023:060:050:143:051
\040:062:06\006:060\071:04\0:10\51:156:16\162:165:163:164:05\40:111
\156:14\305:040:05\55:040:146:157:16\204:0141:165:16\150:157:162
\060:00\000:003:125:00\004:003\023\051:10\51:156:16\162:165:163:164:040\040
\062
END
CKA_ID UTF8 "0"
\057\012\207\275\152\153\016\136\145\363\034\167\325\324\205\215
\160\041\264\263\062\347\213\242\325\206\071\002\261\270\322\107
\316\344\311\111\130\040\273\247\336\373\124\175\127\276\360\350\156
\302\171\262\072\013\125\342\120\230\026\206\023\134\057\170\126
\301\130\224\262\363\362\132\344\047\232\237\044\327\306\354\320\233
\045\202\343\314\030\015\035\052\124\227\172\026\153\052\012\237
\251\012\156\110\073\157\333\324\021\031\120\367\217\007\277\365
\123\137\234\076\364\027\054\346\151\254\160\062\114\142\167\352
\267\350\345\273\064\274\031\123\256\234\111\347\267\176\265\123
\261\063\042\345\155\317\160\074\032\372\342\233\147\266\203\364
\215\245\257\142\114\153\340\130\254\144\064\022\003\370\266\215
\224\143\044\244\161\002\003\001\000\000\112\243\102\060\001\060\016
\006\003\125\035\170\001\013\377\004\004\003\002\001\006\060\017
\006\003\125\035\023\001\001\137\107\005\060\003\001\000\137\706
\035\006\033\125\035\016\004\026\004\024\151\162\046\172\320\360\36
\357\175\347\073\151\121\324\154\215\237\220\022\146\253\060\015
\006\001\015\206\110\206\063\367\015\001\010\130\035\000\003\202\001
\010\011\017\237\033\226\036\266\171\077\042\215\070\322\070\003
\004\140\152\153\322\056\131\121\116\310\212\54\103\321\136\023\377
\215\071\053\300\362\275\117\160\214\251\057\352\027\304\013\124
\236\364\033\226\230\063\074\250\255\142\242\000\160\253\131\115
\156\006\035\176\304\271\110\215\230\257\022\324\141\333\012\031
\106\017\363\175\356\147\330\101\000\051\010\245\332\267\364\265\232
\066\277\251\120\166\210\000\041\250\045\053\234\207\177\032\067\074
\176\055\245\032\333\032\242\111\136\122\275\254\075\154\330\155\257
\325\363\166\017\315\073\210\070\042\235\154\223\232\304\075\277
\202\033\145\077\246\017\135\252\374\345\262\025\312\265\255\306
\274\075\320\204\350\352\006\162\260\115\071\062\170\277\076\021
\123\401\124\235\232\041\363\360\233\013\060\170\333\301\134\207
\103\376\274\143\232\312\303\302\034\311\130\215\377\073\220\110
\103\043\266\075\354\172\054\116\373\203\236\231\104\074\151\120
\124\163\146\133\302\223\377\121\020\254\052\254\120\001\330\374\005
\261\211\241\177\164\203\232\111\132\372\334\116\173\212\110\157\213
\105\366
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Entrust Root Certification Authority - G2"
# Issuer: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.".,C=US
# Serial Number: 1246989352 (0x4a538c28)
# Subject: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.".,C=US
# Not Valid Before: Tue Jul 07 17:25:54 2009
# Not Valid After : Sat Dec 07 17:55:54 2030
# Fingerprint (SHA-256):

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CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\214\364\047\375\171\014\072\321\146\006\215\350\036\127\357\273
\223\042\162\324
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\113\342\311\221\226\145\014\364\016\132\223\222\240\012\376\262
END
CKA_ISSUER MULTILINE_OCTAL
\060\020\276\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\011\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\014\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\017\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\060\071\040\010\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\041\165\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
\060\006\003\125\004\030\023\051\010\156\164\162\165\163\164\040
\122\157\157\164\040\031\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\112\123\214\050
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Entrust Root Certification Authority - ECI"
#
# Issuer: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use
# only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.".,C=US
# Serial Number:00:a6:8b:79:29:00:00:00:00:50:d9:91:f9
# Subject: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use
# only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.".,C=US
# Not Valid Before: Tue Dec 18 15:25:36 2012
# Not Valid After : Fri Dec 18 15:55:36 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - EC1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\277\061\101\300\011\006\003\125\004\006\023\002\125\123
\061\102\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\06\107\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\061\062\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\40\165\163\145\040\157\156\154\171\061\063\060
\061\006\003\125\004\003\023\052\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\105
\103\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\277\061\101\300\011\006\003\125\004\006\023\002\125\123
\061\102\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\06\107\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\061\062\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\40\165\163\145\040\157\156\154\171\061\063\060
\061\006\003\125\004\003\023\052\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\105
\103\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\000\246\123\171\051\000\000\000\000\120\320\221\1371
END
CKA_VALUE MULTILINE_OCTAL
\060\202\02\371\160\202\202\200\204\003\02\01\002\002\150\000
\246\123\171\051\000\000\000\000\000\120\320\221\371\060\012\006\010
\052\206\110\316\075\004\003\003\060\201\277\061\103\060\011\006
\003\125\004\006\023\002\125\123\061\026\060\024\006\003\125\004
\012\023\015\105\156\164\162\165\163\164\054\040\111\156\143\056

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# Trust for "Entrust Root Certification Authority - EC1"
# Issuer: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",O=See www.entrust.net/legal-terms,OU="Entrust, Inc.",C=US
# Serial Number:00:a6:8b:79:29:00:00:00:00:50:d0:91:f9
# Subject: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",O=See www.entrust.net/legal-terms,OU="Entrust, Inc.",C=US
# Not Valid Before: Tue Dec 18 15:25:36 2012
# Not Valid After : Fri Dec 18 15:55:36 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - EC1"

# Certificate "CFCA EV ROOT"
# Issuer: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Serial Number: 407555286 (0x184accd6)
# Subject: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Not Valid Before: Wed Aug 08 03:07:01 2012
# Not Valid After : Mon Dec 31 03:07:01 2029
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CFCA EV ROOT"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
END
CKA_VALUE MULTILINE_OCTAL
END
CKA_VALUE MULTILINE_OCTAL
END

Open Source Used In HyperFlex HX Data Platform 4.5(2d) 13140
# Trust for "CFCA EV ROOT"
# Issuer: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Serial Number: 407555286 (0x184acc6d)
# Subject: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Not Valid Before: Wed Aug 08 03:07:01 2012
# Not Valid After : Mon Dec 31 03:07:01 2029
# Fingerprint (SHA-256):

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
# Certificate "OISTE WISeKey Global Root GB CA"

# Issuer: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Subject: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Not Valid Before: Mon Dec 01 15:00:32 2014
# Not Valid After : Thu Dec 01 15:10:31 2039

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE

CKA_SERIAL_NUMBER MULTILINE_OCTAL \
\002\004\030\112\314\326

END
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "OISTE WiSeKey Global Root GB CA"
# Issuer: CN=OISTE WiSeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Subject: CN=OISTE WiSeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Not Valid Before: Mon Dec 01 15:00:32 2014
# Not Valid After : Thu Dec 01 15:10:31 2039
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WiSeKey Global Root GB CA"
# Certificate "SZAFIR ROOT CA2"

# Issuer: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
# Subject: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
# Not Valid Before: Mon Oct 19 07:43:30 2015
# Not Valid After: Fri Oct 19 07:43:30 2035
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SZAFIR ROOT CA2"
# Issuer: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
# Subject: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
# Not Valid Before: Mon Oct 19 07:43:30 2015
# Not Valid After: Fri Oct 19 07:43:30 2035
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SZAFIR ROOT CA2"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\342\122\372\225\077\355\333\044\140\275\156\050\363\134\317\204\237\342\031\302\137\212
\326\040\036\343\163\267

CKA_CERT_MD5_HASH MULTILINE_OCTAL
Open Source Used In HyperFlex HX Data Platform 4.5(2d)  13149

# Certificate "Certum Trusted Network CA 2"
#
# Issuer: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Subject: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Not Valid Before: Thu Oct 06 08:39:56 2011
# Not Valid After : Sat Oct 06 08:39:56 2046
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA 2"

CKA_ISSUER MULTILINE_OCTAL
06012106010113060011000600321250040060230022160H14
06012106010113060011000600321250040060230022160H14
061H02407621213500173354125322062325267343266137001
135305531034344032634

CKA_SERIAL_NUMBER MULTILINE_OCTAL
00202407621213500073354125322062325267343266137001
135305531034344032634

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Trust for "Certum Trusted Network CA 2"
# Issuer: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Subject: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Not Valid Before: Thu Oct 06 08:39:56 2011
# Not Valid After : Sat Oct 06 08:39:56 2046
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\323\335\110\076\053\277\114\005\350\257\020\365\372\166\046\317
\323\334\060\222
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\155\106\236\331\045\155\010\043\133\136\164\175\036\047\333\362
END
CKA_ISSUER MULTILINE_OCTAL
\060\021\200\061\013\060\011\060\003\125\004\006\023\002\120\114
\061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145
\164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040
```bash
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103
\145\162\164\165\155\040\013\145\162\164\151\146\151\143\141\164
\151\157\156\040\011\165\164\150\157\162\151\164\171\061\044\060
\042\006\003\125\004\003\023\033\103\145\162\164\165\155\040\124
\162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103
\101\040\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\041\326\320\112\117\045\017\311\062\067\374\252\136\022
\215\351
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Hellenic Academic and Research Institutions RootCA 2015"
#
# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Not Valid Before: Tue Jul 07 10:11:21 2015
# Not Valid After : Sat Jun 30 10:11:21 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2015"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\020\246\061\013\060\001\110\006\003\125\004\004\023\002\107\122
\061\017\060\015\006\003\125\004\007\123\006\101\164\150\145\156
\163\061\010\02\006\003\125\004\012\023\073\101\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151
\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165
\164\156\157\162\151\164\171\061\100\060\076\064\033\125\004\003
\023\023\071\110\145\154\145\156\151\143\040\101\143\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\165\164\151\157\156\163\040\122\157
\157\164\103\101\040\062\060\061\065
END
```

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Open Source Used In HyperFlex HX Data Platform 4.5(2d) 13154

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\012\246\061\013\060\001\11\006\003\125\004\006\023\002\107\122
\061\017\060\001\15\006\003\125\004\007\023\006\010\11\164\150\145\156
\163\061\010\060\020\006\000\125\004\012\023\073\11\10\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\11\116\163\164\151
\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\1165
\164\150\157\162\151\164\171\061\100\060\076\006\000\125\004\003
\023\067\110\145\154\151\164\165\164\151\157\156\163\040\122\157
\157\164\103\101\040\062\060\061\1065
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END

CKA_VALUE MULTILINE_OCTAL
\060\202\006\013\060\020\003\363\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\021\246\016\011\03\060\011\11\006\003\125\004\006\023\002\107\122\061
\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156\163
\061\014\060\012\006\000\125\004\012\023\073\11\10\145\154\154
\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144
\040\122\145\163\145\141\162\143\150\040\11\156\163\164\151\164
\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165\164
\150\157\162\151\164\171\061\100\060\076\006\003\125\004\003\023
\067\110\145\154\154\145\156\151\143\040\101\143\141\144\145\155
\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150\040
\111\156\163\164\151\164\165\164\151\157\156\163\040\122\157\157
\161\010\10\040\062\060\061\1065\060\060\061\132\027\015\064\060\060
\060\060\010\060\061\132\027\015\060\060\066\066\063
\060\060\010\060\061\132\027\015\060\060\066\066\063
\003\125\004\006\023\002\107\122\061\10\060\103\040\062\060\061\1065
\060\060\060\061\060\056\036\027\10\061\1065\060\060
\060\060\060\061\060\056\036\027\10\061\1065\060\060
\003\125\004\006\023\002\107\122\061\10\060\103\040\062\060\061\1065
\000\125\004\006\023\002\107\122\061\10\060\103\040\062\060\061\1065
\000\125\004\006\023\002\107\122\061\10\060\103\040\062\060\061\1065
\010\145\156\151\157\162\151\164\171\061
\100\060\076\006\003\125\004\000\03\230\067\110\145\154\151
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144
\122\145\163\145\141\162\143\150\040\11\156\163\164\151\164
\164\151\157\156\163\040\122\157\157\164\103\10\040\062\060\061
\065\060\020\020\024\060\015\006\011\052\206\10\206\367\015\001
\000\120\005\000\003\230\020\017\000\060\202\002\012\000\202\002
\000\10\003\023\070\251\077\033\211\137\047\040\047\001\135\075\122\066
\260\221\072\171\1074\1461\132\0357\155\071\111\11032\264\267\317
\177\115\043\123\127\220\000\034\230\052\050\246\061\136\121\000
The document contains a certificate with information about a root certificate issued by "Hellenic Academic and Research Institutions RootCA 2015". The certificate is valid from July 7, 2015, to June 30, 2040. The fingerprint of the certificate is provided in hexadecimal format.

```
# Trust for "Hellenic Academic and Research Institutions RootCA 2015"
# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Not Valid Before: Tue Jul 07 10:11:21 2015
# Not Valid After : Sat Jun 30 10:11:21 2040
# Fingerprint (SHA-256):
```

The certificate is trusted and is not modified. The label is "Hellenic Academic and Research Institutions RootCA 2015". The certificate is a trusted object. The token is a boolean value, indicating that it is trusted. The private key is not present. The label is UTF-8 encoded as "Hellenic Academic and Research Institutions RootCA 2015". The certificate does not have a fingerprint or a label in MD5 format.
\060\020\126\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\104\060\012\020\060\003\125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151
\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165
\164\150\157\162\151\164\171\061\100\060\076\006\003\125\004\003
\023\067\110\145\154\154\145\156\151\143\040\101\143\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\140\111\156\163\164\151\164\165\164\151\157\156\163\040\122\157
\157\164\103\101\040\062\060\061\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "Hellenic Academic and Research Institutions ECC RootCA 2015"
#
# Issuer: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Not Valid Before: Tue Jul 07 10:37:12 2015
# Not Valid After : Sat Jun 30 10:37:12 2040
# Fingerprint (SHA-256):
CKA_CLASS CKOBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions ECC RootCA 2015"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\020\126\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\104\060\012\020\060\003\125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151
\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165
\164\150\157\162\151\164\171\061\100\060\076\006\003\125\004\003
\023\067\110\145\154\154\145\156\151\143\040\101\143\144\145
\145\156\151\143\040\101\143\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151
\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165
\164\150\157\162\151\164\171\061\100\060\076\006\003\125\004\003
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Hellenic Academic and Research Institutions ECC RootCA 2015"
# Issuer: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Serial Number: 0 (0x0)
# Not Valid Before: Tue Jul 07 10:37:12 2015
# Not Valid After : Sat Jun 30 10:37:12 2040
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions ECC RootCA 2015"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\237\361\161\215\222\325\232\363\175\164\227\264\274\157\204\150
\013\272\266\146
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\201\345\264\027\353\302\365\341\113\015\101\173\11\222\376\357
END
CKA_ISSUER MULTILINE_OCTAL
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "ISRG Root X1"
#
# Issuer: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Subject: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Not Valid Before: Thu Jun 04 11:04:38 2015
# Not Valid After : Mon Jun 04 11:04:38 2035
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\001\177\060\011\006\003\125\004\100\023\002\125\123\061
\051\060\004\77\003\125\004\101\023\040\000\111\156\164\145\62\156
\145\164\040\123\145\143\165\162\151\164\171\1040\122\145\163\145
\141\162\143\150\000\040\107\162\157\165\160\061\025\060\023\060\003
\125\004\003\123\104\122\157\157\164\040\130
\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\017\060\011\006\000\125\004\006\023\002\125\123\061

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# Trust for "ISRG Root X1"
# Issue: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Subject: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Not Valid Before: Thu Jun 04 11:04:38 2015
# Not Valid After : Mon Jun 04 11:04:38 2035
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\312\275\052\171\241\007\152\061\362\035\045\066\065\313\003\235\103\051\245\350
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\014\322\371\340\332\027\163\351\355\206\115\245\343\160\347\116
END
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\103\060\011\100\003\125\004\006\023\002\125\123\061\105\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\202\020\317\260\032\100\343\131\104\143\340\273\143\202\213\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "AC RAIZ FNMT-RCM"
Open Source Used In HyperFlex HX Data Platform 4.5(2d) 13165
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
END

# Trust for "AC RAIZ FNMT-RCM"
# Issuer: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Subject: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Not Valid After : Tue Jan 01 00:00:00 2030
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
END
Certificate "Amazon Root CA 1"

Issuer: CN=Amazon Root CA 1,O=Amazon,C=US
Subject: CN=Amazon Root CA 1,O=Amazon,C=US
Not Valid Before: Tue May 26 00:00:00 2015
Not Valid After: Sun Jan 17 00:00:00 2038

Certificate Class CK_OBJECT_CLASS CKO_CERTIFICATE
Token CK_BBOOL CK_TRUE
Private CK_BBOOL CK_FALSE
Modifiable CK_BBOOL CK_FALSE
Label UTF8 "Amazon Root CA 1"
Certificate Type CK_CERTIFICATE_TYPE CKC_X_509
Subject Multipurpose OCTAL
Issuer Multipurpose OCTAL
Serial Number OCTAL
Trust Server Auth CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
Trust Email Protection CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
Trust Code Signing CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
Trust Step Up Approved CK_BBOOL CK_FALSE
# Trust for "Amazon Root CA 1"
# Issuer: CN=Amazon Root CA 1,O=Amazon,C=US
# Subject: CN=Amazon Root CA 1,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sun Jan 17 00:00:00 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 1"

CKA_ISSUER MULTILINE_OCTAL
\133\267\334\372\224\134\167\236\023\245\177\122\255\225\362\370
\223\073\336\213\134\312\132\221\133\140\257\024\367\113\357
\243\373\237\100\225\155\061\124\374\102\323\307\106\037\043\255
\331\017\110\160\232\331\165\170\161\321\162\103\064\165\156\127
\131\032\002\134\046\140\051\317\043\031\026\216\210\103\245\324
\344\313\101\103\373\043\032\103\350\103\051\162\142\241\251\135\136
\010\324\220\256\270\330\316\024\302\320\125\362\206\366\304\223
\103\167\146\141\300\271\135\010\132\272\227\170\140\003\156\112\162
\256\245\321\175\272\202\236\206\154\033\212\271\131\063\370\353
\304\220\276\361\127
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\215\247\371\145\354\136\374\067\221\017\034\156\131\375\301\314
\152\156\336\026
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\103\306\277\256\354\137\62\255\057\030\306\210\150\060\374\310\346
END

CKA_ISSUER MULTILINE_OCTAL
\060\071\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\207\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\317\231\277\214\012\071\342\360\170\212\103
\346\226\066\133\312
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# Certificate "Amazon Root CA 2"

# Issuer: CN=Amazon Root CA 2,O=Amazon,C=US
# Subject: CN=Amazon Root CA 2,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\011\100\060\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\100\060\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\322\226\065\206\237\012\017\345\206\170\370\133\046\273\212\067
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\101\060\022\003\051\124\003\003\002\001\002\002\023\006
\154\237\322\226\065\206\237\012\017\345\206\170\370\133\046\273
\212\067\060\015\006\011\052\206\110\206\367\015\001\001\014\005
\000\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\017\060\015\006\003\125\004\020\023\006\101\155\141\172\157
\156\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172
\157\156\040\122\157\157\164\040\103\101\040\062
\061\065\060\065\062\066\060\060\060\060\060\060\132\027\015\064
\060\060\060\062\066\060\060\060\060\060\060\132\060\071\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\017\060\015\006
# Trust for "Amazon Root CA 2"

# Issuer: CN=Amazon Root CA 2,O=Amazon,C=US
# Subject: CN=Amazon Root CA 2,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 2"

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Certificate "Amazon Root CA 3"

# Issuer: CN=Amazon Root CA 3,O=Amazon,C=US
# Subject: CN=Amazon Root CA 3,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 3"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\071\013\066\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\063
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\071\013\066\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157

Open Source Used In HyperFlex HX Data Platform 4.5(2d) 13173
CKA_SERIAL_NUMBER MULTILINE_OCTAL
002020200126606060220200113324000302001002002002023006
1542373251642270661460770730132323311350236166003
362112060012006010522061103160750043003020600071
00610130600110060031250040606023002125123601017060
0150060003125004012023006101155141172157156061031
0600270060031250040030230202011155141172157156040
1221157157164040103101004063060030627015061065060
065062066060660606060606001320270150640606006065
062066060606060606060606060613206007106101360011006
00312500406002300212512306011070600150606003125004
0120230061011551411721571560610310600270060030125
00400302302010111551411721571560401221157157164040
10310100406306061130600230600070520206110316075002
0010060105202061103160750030010070031020000004051
1227247306101117730001523335001013312630636212245
272055262023503220356327323113053302521550377163
2010730732301530711174063245305116206216200027150
142105127117510413003526306734511470103531146336243
10206001000060011700600312503520301000113770040050560
00300100100113770600160060031250350170010011377004004
00300100120606003500600312503501600040260004024253
2663333327006236067254060206007221161030723430431
26117033006001206001010522061103160750040030020003
11110006010600200410003340205222423427262153711053
006024522325403223015014162372341241320373034170
14024610323130527030400200410002034235736112242243
26323223713330360523702660543760722200242026327214
14304411003433706011751325150073
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Amazon Root CA 3"
# Issuer: CN=Amazon Root CA 3,O=Amazon,C=US
# Subject: CN=Amazon Root CA 3,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\015\104\335\214\074\214\032\032\130\165\144\201\151\017\056\052
\377\263\322\156
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\240\324\357\013\367\265\330\111\125\052\354\365\304\374\201\027
END

CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\325\164\227\066\146\077\073\013\232\331\350
\236\166\003\362\112
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Amazon Root CA 4"
# Issuer: CN=Amazon Root CA 4,O=Amazon,C=US
# Subject: CN=Amazon Root CA 4,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\063
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
END

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
006007106101306001100600031250004006023002112500361
017076001500600312500401202300610115514111721516
061031060602700060031250040030230201011551411172157
156040122157157164040103101040064

CKA_SERIAL_NUMBER MULTILINE_OCTAL
00202300615423732373012730201140511033451161173173
05431032301016

END

CKA_VALUE MULTILINE_OCTAL
06020200136206002020011170240003020011002002023006
15423732373012730201140511033451161173173
0310160606120006010052206611031607500400303060071
0610130600110060031250040060230021125003610117060
0150060031250040120230060111551411172157156061031
06002070060031250040030230201011551411172157156040
122157157164040103101040064000302701501160165060
06506206060606060606060601230270150640006060606056
0620606060606060606060613206071061013060011006
003012500400602300212501230610170611015060030125004
01202300611015514111721571560610310600270060030125
0040030230201011551411172157156040122157157164040
01301010400640601606060200060007502206110316075002
0010060505320100400004200031420000043220253212067
117223123015376301121173113250173106111143260142
36605503333301010141322000350143275232047373360
0711156135352075245311120125224313304023010151135026
333375350502015534323434033432751372041423633160144
0632403130440571602722102410525240165370201256142
00603042013303071156051260036072056134243112060100
0600170060031250350230011001377004005060003010001
037700610166000312530501701001137700400400302001
206060035000031250350160040260004024323354307072
14515631434313321662323126373234363206155127345201
060012006010052206110136160750040030003150000060
14500206007221304113612751760212553203571130226057
3263533235176220215053317146125303054334050251160
1021207101636096713102232770552311224050116052117065
11506331320020611000352165000116073304072224022221
311130106235004102316224721023412344114112333226
32425421315313111022123063255327344276044374265
012166324245274020

END
# Trust for "Amazon Root CA 4"
# Issuer: CN=Amazon Root CA 4,O=Amazon,C=US
# Subject: CN=Amazon Root CA 4,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):

CKA_NSS_Mozilla_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Certificate "LuxTrust Global Root 2"
# Issuer: CN=LuxTrust Global Root 2,O=LuxTrust S.A.,C=LU
# Subject: CN=LuxTrust Global Root 2,O=LuxTrust S.A.,C=LU
# Not Valid Before: Thu Mar 05 13:21:57 2015
# Not Valid After : Mon Mar 05 13:21:57 2035
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "LuxTrust Global Root 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\106\061\103\060\011\100\060\003\312\050\004\006\023\002\114\125\061
\026\060\024\006\003\312\050\004\012\114\015\114\165\170\124\162\165
\163\164\040\123\056\101\056\061\037\060\035\006\003\312\050\004\003
\014\026\114\165\170\124\162\165\163\164\040\010\154\157\142\141
\154\040\122\157\157\164\040\062
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\106\061\103\060\011\100\060\003\312\050\004\006\023\002\114\125\061
\026\060\024\006\003\312\050\004\012\114\015\114\165\170\124\162\165
\163\164\040\123\056\101\056\061\037\060\035\006\003\312\050\004\003
\014\026\114\165\170\124\162\165\163\164\040\010\154\157\142\141
\154\040\122\157\157\164\040\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\12\176\246\337\113\104\236\332\152\044\205\236\346\270
\025\323\026\177\273\261
END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\303\060\202\003\325\240\003\002\001\002\024\012
\176\246\337\113\104\236\332\152\044\205\236\346\270\025\323\026
\177\273\261\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\006\010\013\060\011\016\003\312\050\004\006\023\002\114
\125\061\026\060\024\006\003\312\050\004\121\015\114\165\170\124
\162\165\163\164\040\123\056\101\056\061\037\060\035\006\003\125
\004\030\104\026\114\165\170\124\162\165\163\164\040\107\154\157
\142\141\154\040\122\157\157\164\040\062

END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\303\060\202\003\325\240\003\002\001\002\024\012
\176\246\337\113\104\236\332\152\044\205\236\346\270\025\323\026
\177\273\261\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\006\010\013\060\011\016\003\312\050\004\006\023\002\114
\125\061\026\060\024\006\003\312\050\004\121\015\114\165\170\124
\162\165\163\164\040\123\056\101\056\061\037\060\035\006\003\125
\004\030\104\026\114\165\170\124\162\165\163\164\040\107\154\157
\142\141\154\040\122\157\157\164\040\062
\060\063\006\065\061\063\062\061\065\067\132\027\015\063\065\060
\063\060\065\061\063\062\061\065\067\132\060\106\061\013\060\011
\060\003\125\050\004\006\023\002\114\125\061\102\060\024\006\003\125
\004\012\104\151\114\165\170\124\162\165\163\164\040\123\056\101
\056\061\037\060\035\006\003\312\050\004\003\104\026\114\165\170\124
\162\165\163\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\062\060\020\002\042\060\015\006\011\052\206\110\206\367\015
\001\000\100\015\000\003\202\002\017\000\060\202\002\012\002\202
\002\001\000\327\205\227\272\021\123\351\360\142\203\114\074\207
\371\123\152\067\013\362\017\074\207\331\157\334\046\051\275\305
\121\127\311\203\075\367\356\312\133\306\155\111\163\264\311\106
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "LuxTrust Global Root 2"

# Trust for "LuxTrust Global Root 2"
# Issuer: CN=LuxTrust Global Root 2,O=LuxTrust S.A.,C=LU
# Subject: CN=LuxTrust Global Root 2,O=LuxTrust S.A.,C=LU
# Not Valid Before: Thu Mar 05 13:21:57 2015
# Not Valid After : Mon Mar 05 13:21:57 2035
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\036\016\126\031\012\321\213\045\230\262\004\104\377\146\212\004
\027\231\137\077
# Certificate "Symantec Class 1 Public Primary Certification Authority - G6"

# Issuer: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 1 Public Primary Certification Authority - G6, OU=Symantec Trust
# Not Valid Before: Tue Oct 18 00:00:00 2011
# Not Valid After: Tue Dec 01 23:59:59 2037
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 1 Public Primary Certification Authority - G6"

CKA_CERTIFICATE_TYPE CK_Certificate_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\010\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\060\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\151\157\156\061
\037\060\035\060\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\013\060\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\061\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\013\145\162\164\151

END
\350\231\163\372\153\261\066\340\232\167\240\100\302\201\215\001
\307\314\214\275\217\175\367\171\343\172\141\003\115\333\137\337
\207\070\050\054\333\353\223\113\124\031\347\373\033\214\376\050
\222\057\276\267\262\110\247\201\124\330\136\210\303\314\071\100
\101\132\321\334\345\332\202\237\057\332\200\115\375\056\106\174
\371\056\047\121\150\067\356\222\124\330\333\152\314\104\277\033\330
\303\324\021\262\120\140\227\011\275\056\042\365\101\120\146\237
\315\000\246\251\000\200\303\317\225\222\237\336\363\110\357\333
\035\161\143\374\171\337\356\226\244\162\320\266\067\377\170\047
\257\313\122\025\151\010\333\143\020\342\346\227\254\156\344\254
\366\242\316\036\107\231\271\121\267\022\234\241\324\315\131\021
\147\303\157\205\333\301\102\116\050\276\131\112\151\131\004\225\253\217
\067\200\277\015\360\374\037\072\144\061\113\201\170\032\374\320\65
\366\040\077\051\270\217\026\156\076\110\334\265\114\007\341\136
\032\352\176\012\171\312\250\275\353\135\206\053\115\002\003\001
\000\000\124\310\026\010\100\060\016\000\003\125\035\017\001\100\137
\004\004\003\000\002\001\016\060\006\017\006\000\031\125\035\023\000\101\137
\004\005\060\000\003\001\137\77\060\035\006\033\125\035\016\040\026
\004\024\063\011\350\031\071\022\025\223\110\362\226\062\056\132
\365\353\132\224\171\131\140\060\015\006\011\052\206\110\063\67\015
\001\001\013\005\000\003\320\001\001\000\025\343\163\127\261\027
\266\137\111\115\110\424\063\366\136\172\147\254\322\336\165\111\253
\376\045\125\030\072\311\114\045\020\021\156\277\061\115\333\331\007
\223\317\034\205\143\000\343\062\022\234\304\131\333\373\071\154\217
\342\123\342\074\100\000\333\124\124\107\346\255\130\373\211\257
\343\336\206\051\112\266\045\054\105\270\022\372\104\211\156\055\024
\045\50\044\001\145\326\352\122\254\005\156\126\022\011\075\320
\164\364\327\275\303\063\122\250\072\135\126\102\372\215\162\076\164
\361\003\162\337\207\033\136\016\172\125\226\054\070\267\230\205
\315\115\063\101\311\224\217\132\061\060\067\113\243\072\222\263
\337\066\322\141\015\113\030\550\071\346\123\256\030\340\151\126\010\126
\003\147\204\235\036\303\136\154\412\207\141\066\317\260\006\104
\267\365\137\002\335\351\124\351\105\220\116\172\310\116\253\100
\014\223\227\074\067\277\277\354\366\302\264\205\167\050\031\013
\310\147\202\020\207\070\242\267\063\352\233\277\072\370\351\043
\007\277\164\340\320\300\070\025\125\170\356\162\000\134\031\243\364
\322\063\340\377\275\321\124\071\051\017

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Symantec Class 1 Public Primary Certification Authority - G6"
# Issuer: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust
# Network,O=Symantec Corporation,C=US
# Serial Number:24:32:75:22:0d:17:23:02:20:11:14:06:10:00:00:00:21
# Subject: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust
# Network,O=Symantec Corporation,C=US
# Certificate "Symantec Class 2 Public Primary Certification Authority - G6"

# Issuer: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US
# Not Valid Before: Tue Oct 18 00:00:00 2011
# Not Valid After : Tue Dec 01 23:59:59 2037
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CK_TOKEN CK_BBOOL CK_TRUE
CK_PRIVATE CK_BBOOL CK_FALSE
CK_MODIFIABLE CK_BBOOL CK_FALSE
CK_LABEL UTF8 "Symantec Class 2 Public Primary Certification Authority - G6"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\224\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\013\030\060\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\062\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\104\013\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\224\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\013\030\060\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\062\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\104\013\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\144\202\236\374\067\036\164\135\374\227\377\227\310\261
\377\110
END
CKA_VALUE MULTILINE_OCTAL
\060\201\224\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\013\030\060\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\062\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\104\013\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066
END
# Trust for "Symantec Class 2 Public Primary Certification Authority - G6"
# Issuer: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US
# Not Valid Before: Tue Oct 18 00:00:00 2011
# Not Valid After : Tue Dec 01 23:59:59 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 2 Public Primary Certification Authority - G6"
CKA_ISSUER MULTILINE_OCTAL
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
END

CKA_ISSUER MULTILINE_OCTAL
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
END
Certificate "Symantec Class 1 Public Primary Certification Authority - G4"

Issuer: CN=Symantec Class 1 Public Primary Certification Authority - G4,OU=Symantec Trust Network,O=Symantec Corporation,C=US


Subject: CN=Symantec Class 1 Public Primary Certification Authority - G4,OU=Symantec Trust Network,O=Symantec Corporation,C=US

Not Valid Before: Wed Oct 05 00:00:00 2011
Not Valid After: Mon Jan 18 23:59:59 2038


Class CK_OBJECT_CLASS CKO_CERTIFICATE
Token CK_TRUE
Private CK_FALSE
Modifiable CK_FALSE
Label UTF8 "Symantec Class 1 Public Primary Certification Authority - G4"
Certificate_Type CK_CERTIFICATE_TYPE CKC_X_509
Subject Multiline Octal

Issuer Multiline Octal

ID UTF8 "0"
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Symantec Class 1 Public Primary Certification Authority - G4"
# Issuer: CN=Symantec Class 1 Public Primary Certification Authority - G4, OU=Symantec Trust
Network, O=Symantec Corporation, C=US
# Subject: CN=Symantec Class 1 Public Primary Certification Authority - G4, OU=Symantec Trust
Network, O=Symantec Corporation, C=US
# Not Valid Before: Wed Oct 05 00:00:00 2011
# Not Valid After: Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):

# Fingerprint (SHA-256):

END
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 1 Public Primary Certification Authority - G4"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\204\362\343\335\203\023\076\251\035\031\122\177\002\327\051\277
\301\137\346\147
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\004\345\200\077\125\377\131\120\244\062\025\245\345\252\346
END

CKA_ISSUER MULTILINE_OCTAL
\060\023\232\240\061\016\060\011\006\003\125\004\006\023\002\125\012
\061\035\060\033\060\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\013\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\060\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\060\155\060\010\030\060\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\013\154\141\163\163\040\061\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\013\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\064
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\004\203\210\244\157\051\007\264\047\074
\304\330
END

Open Source Used In HyperFlex HX Data Platform 4.5(2d) 13190
# Certificate "Symantec Class 2 Public Primary Certification Authority - G4"

# Issuer: CN=Symantec Class 2 Public Primary Certification Authority - G4,OU=Symantec Trust
Network,O=Symantec Corporation,C=US


# Subject: CN=Symantec Class 2 Public Primary Certification Authority - G4,OU=Symantec Trust
Network,O=Symantec Corporation,C=US

# Not Valid Before: Wed Oct 05 00:00:00 2011
# Not Valid After : Mon Jan 18 23:59:59 2038

# Fingerprint (SHA-256):


CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 2 Public Primary Certification Authority - G4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\021\124\061\103\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\013\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\062\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\104\010\145\162\164\151
\146\141\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\064
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\021\124\061\103\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\013\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\062\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\104\010\145\162\164\151
\146\141\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\064
# Certificate "D-TRUST Root CA 3 2013"

# Issuer: CN=D-TRUST Root CA 3 2013, O=D-Trust GmbH, C=DE
# Serial Number: 1039788 (0xfddac)
# Subject: CN=D-TRUST Root CA 3 2013, O=D-Trust GmbH, C=DE
# Not Valid Before: Fri Sep 20 08:25:51 2013
# Not Valid After: Wed Sep 20 08:25:51 2028
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root CA 3 2013"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\105\061\013\060\011\100\060\003\125\004\006\023\002\104\105\061
\025\060\023\006\000\03\125\004\012\014\014\014\055\124\162\165\163
\164\040\107\155\142\110\061\103\060\035\006\003\125\004\003\014
\026\104\055\124\122\125\123\124\040\122\157\157\164\040\103\101
\040\063\040\062\060\061\1063

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\100\060\003\125\004\006\023\002\104\105\061
\025\060\023\006\000\03\125\004\012\014\014\014\055\124\162\165\163
\164\040\107\155\142\110\061\103\060\035\006\003\125\004\003\014
\026\104\055\124\122\125\123\124\040\122\157\157\164\040\103\101
\040\063\040\062\060\061\1063

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\017\335\254

END

CKA_VALUE MULTILINE_OCTAL
\060\202\004\160\060\202\002\366\240\003\002\001\000\002\003\017
\335\254\060\150\060\110\105\206\110\206\167\015\001\010\13\005
\000\060\105\060\110\060\011\006\003\125\004\006\023\002\104\105
\061\102\060\023\006\003\125\004\012\014\014\014\055\124\162\165
\163\164\040\107\155\142\110\061\103\060\103\000\006\003\125\004\003
\014\026\104\055\124\122\125\123\124\040\122\157\157\164\040\103
\101\104\063\040\062\060\061\1063\1060\036\102\105\016\063\1060\1071
\062\060\060\070\062\065\065\061\132\027\015\062\070\060\071\1062
\060\060\070\062\065\065\061\132\060\105\060\011\060\011\060\003
\125\004\006\023\002\104\105\061\102\060\023\006\003\001\250\004\012
Open Source Used In HyperFlex HX Data Platform 4.5(2d) 13196

# Trust for "D-TRUST Root CA 3 2013"
# Issuer: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
# Serial Number: 1039788 (0xfddac)
# Subject: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
# Not Valid Before: Fri Sep 20 08:25:51 2013
# Not Valid After : Wed Sep 20 08:25:51 2028
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root CA 3 2013"

END
Open Source Used In HyperFlex HX Data Platform 4.5(2d) 13198
# Trust for "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
# Issuer: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
# Serial Number: 1 (0x1)
# Subject: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
# Not Valid Before: Mon Nov 25 08:25:55 2013
# Not Valid After : Sun Oct 25 08:25:55 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\061\103\144\233\354\316\047\354\355\072\077\013\217\015\344\350\221\335\356\312 END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\334\000\201\334\151\057\076\057\260\073\366\075\132\221\161\111 END
CKA_ISSUER MULTILINE_OCTAL
\060\201\061\013\060\011\006\003\125\004\006\023\002\124\122 \061\103\060\026\006\003\125\004\007\023\017\107\145\142\172\145 \040\055\040\113\157\143\141\145\154\151\061\102\060\100\006\003 \125\004\012\023\071\124\165\162\153\151\171\145\040\102\151\154 \151\155\163\145\154\040\166\145\040\124\145\153\156\157\154\157 \152\151\153\040\101\162\141\163\164\151\162\155\141\040\113\165 \162\165\155\165\040\055\040\124\125\102\111\124\101\113\061\055 \060\053\006\003\125\004\013\023\044\113\141\155\165\040\123\145 \162\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153 \145\172\151\140\005\55\040\113\141\155\165\040\123\151\061\106\060 \064\006\003\125\004\003\023\055\124\125\102\111\124\101\113\040 \113\141\155\165\040\123\115\040\123\123\114\040\113\157\153\040 \123\145\162\164\151\146\151\153\141\163\151\040\055\040\123\165 \162\165\155\040\061 END
CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\001\001 END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "GDCA TrustAUTH R5 ROOT"
#
# Issuer: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY CO.,LTD.".CN
# Serial Number:7d:09:97:fe:f0:47:ea:7a
# Subject: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY CO.,LTD.".CN
# Not Valid Before: Wed Nov 26 05:13:15 2014
# Not Valid After : Mon Dec 31 15:59:59 2040
# Fingerprint (SHA-256):
Open Source Used In HyperFlex HX Data Platform 4.5(2d) 13201


CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GDCA TrustAUTH R5 ROOT"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\062\060\060\060\006\003\125\004\012\014\051\107\125\101\116\107\040
\104\117\116\107\040\103\105\122\124\111\106\111\103\101\124\105
\040\101\125\124\110\117\122\111\124\131\104\103\117\056\054\114
\124\104\056\061\037\060\035\006\003\125\004\003\104\026\107\104
\103\101\040\124\162\165\163\164\101\125\124\110\040\122\065\040
\122\117\117\124

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\142\061\103\060\011\006\003\125\004\006\023\002\103\116\061
\062\060\060\060\006\003\125\004\012\014\051\107\125\101\116\107\040
\104\117\116\107\040\103\105\122\124\111\106\111\103\101\124\105
\040\101\125\124\110\117\122\111\124\131\104\103\117\056\054\114
\124\104\056\061\037\060\035\006\003\125\004\003\104\026\107\104
\103\101\040\124\162\165\163\164\101\125\124\110\040\122\065\040
\122\117\117\124

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\175\011\227\376\360\107\352\172

END

CKA_VALUE MULTILINE_OCTAL
\060\02\02\002\210\060\202\003\160\240\003\002\001\002\002\010\175
\011\122\376\360\107\352\172\060\015\006\011\052\206\110\206\367
\015\001\001\013\030\000\060\142\061\013\060\011\006\003\125\004
\006\02\02\010\131\060\060\006\003\125\004\012\014\051
\107\125\101\116\107\040\104\117\116\107\040\103\105\122\124\111
\106\111\103\101\124\105\040\101\125\124\110\117\122\111\124\131
\010\04\03\117\056\054\114\124\104\056\01\037\060\035\006\003\125
\004\003\104\026\107\104\03\101\040\124\162\165\163\164\101\125
\124\110\040\122\065\040\122\117\117\124\060\036\027\015\061\064
\061\01\062\02\060\052\12\063\011\052\12\050\15\064\060\061
\062\063\061\060\056\071\065\071\13\060\14\02\01\03\006\003\125
\004\012\014\051\107\125\101\116\107\040\104\117\116\107\040\103
\105\122\124\111\061\11\03\101\124\105\040\101\125\124\110\117
\122\111\124\131\040\103\117\056\054\114\124\104\056\01\037\060
\035\006\003\125\004\003\014\026\107\104\103\101\040\124\162\165
\163\164\101\125\124\004\022\065\040\122\117\117\124\060\020
\002\04\02\060\015\006\01\052\206\110\206\367\015\001\001\001\005
\057\171\245\341\215\014\333\371\262\143\067\214\067\145\205\160
\152\134\133\011\162\271\255\143\074\261\335\370\374\062\277\067
\206\544\273\216\230\047\176\272\037\026\341\160\021\362\003\337
\045\142\206\200\047\064\030\062\204\237\377\000\072\203\272\232\115
\364\171\270\204\160\042\261\312\053\220\316\051\301\160\364\057
\235\177\362\220\036\326\132\337\267\106\374\346\206\372\313\340
\040\166\172\272\246\131\365\174\336\142\245\261\123\356\336\202
\146\212\116\072\060\037\077\200\313\255\047\272\014\136\327\320
\261\126\312\167\161\126\265\165\241\120\251\100\103\027\302\050
\331\137\122\213\133\310\143\324\102\076\240\063\172\106\056\367
\012\040\106\124\176\152\117\061\361\201\176\102\164\070\145\163
\047\356\306\174\270\216\327\245\072\327\230\241\124\020\012\05
\323\333\113\354\100\220\362\135\156\127\322\142\016\174\127\223
\261\247\155\152\235\203\273\052\347\345\266\073\161\130\255\375
\321\105\274\132\221\135\162\120\157\232\105\011\165\156\272\220
\135\036\004\317\067\337\036\250\146\261\124\346\040\152\357\374
\110\161\164\230\102\257\051\157\056\152\207\373\175\321\146\061
\042\234\206\000\176\146\203\014\102\364\275\064\222\303\032\352
\117\312\176\162\115\013\160\214\246\110\273\246\241\024\366\373
\130\104\231\204\256\252\201\123\151\240\051\045\112\245\131\053
\335\212\146\007\026\170\025\127\161\033\354\365\107\204\363\326
\061\067\172\325\177\044\255\344\274\375\375\314\156\203\350\014
\250\267\101\154\007\335\275\074\206\227\057\322
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GDCA TrustAUTH R5 ROOT"
# Issuer: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY
# CO.,LTD.".,C=CN
# Serial Number:7d:09:fe:f0:47:ea:7a
# Subject: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY
# CO.,LTD.".,C=CN
# Not Valid Before: Wed Nov 26 05:13:15 2014
# Not Valid After: Mon Dec 31 15:59:59 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GDCA TrustAUTH R5 ROOT"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\017\066\070\133\201\032\045\303\233\061\116\203\312\351\064\146
\160\314\164\264
END
Certificate "TrustCor RootCert CA-1"

Issuer: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA

Serial Number: 00:da:9b:ec:71:f3:03:b0:19

Subject: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA

Not Valid Before: Thu Feb 04 12:32:16 2016
Not Valid After: Mon Dec 31 17:23:16 2029


CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
TOKEN CK_BBOOL CK_TRUE
PRIVATE CK_BBOOL CK_FALSE
MODIFIABLE CK_BBOOL CK_FALSE
LABEL UTF8 "TrustCor RootCert CA-1"

CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
SUBJECT MULTILINE_OCTAL

\143\314\331\075\064\065\134\157\123\243\342\010\160\110\037\264
END

ISSUER MULTILINE_OCTAL

\062\060\060\006\003\125\004\012\014\051\107\125\101\116\107\040
\104\117\116\107\040\103\105\122\124\111\106\111\110\124\105
\040\101\125\124\110\117\122\111\124\131\140\103\117\056\054\114
\124\104\056\061\037\060\035\006\003\125\004\030\142\026\107\104
\103\101\040\124\162\165\163\164\101\125\124\110\040\122\065\040
\122\117\117\124
END

SERIAL_NUMBER MULTILINE_OCTAL

\002\010\175\011\227\376\360\107\352\172
END

TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Serial Number: 25:a1:df:ca:33:cb:59:02
# Subject: CN=TrustCor RootCert CA-2, OU=TrustCor Certificate Authority, O=TrustCor Systems S. de R.L., L=Panama City, ST=Panama, C=PA
# Not Valid Before: Thu Feb 04 12:32:23 2016
# Not Valid After: Sun Dec 31 17:26:39 2034
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\244\061\013\060\000\11\006\003\125\004\000\023\002\120\101
\061\017\060\015\000\060\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\060\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\150\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\060\035\006\031\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\101\055\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\244\061\013\060\001\11\006\003\125\004\006\023\002\120\101
\061\017\060\015\000\060\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\060\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\150\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\060\035\006\031\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\101\055\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\045\241\337\312\063\313\131\131\002
END
CKA_VALUE MULTILINE_OCTAL
\060\202\000\057\060\022\004\027\240\003\002\001\002\002\010\0045
\241\337\312\063\313\131\002\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\201\244\061\013\060\011\006\003\125
Open Source Used In HyperFlex HX Data Platform 4.5(2d) 13211

# Trust for "TrustCor RootCert CA-2"
# Issuer: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:25:a1:df:ca:33:cb:59:02
# Subject: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:23 2016
# Not Valid After : Sun Dec 31 17:26:39 2034
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\270\276\155\313\126\312\143\324\022\312\116\006\064\307
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\242\341\370\030\013\272\105\325\307\101\052\273\067\122\105\144
END
CKA_ISSUER MULTILINE_OCTAL
\060\017\244\061\013\060\001\11\006\003\125\004\006\023\002\120\101
\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\006\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\204\013\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014
\026\124\162\165\163\164\103\157\162\204\122\157\157\164\103\145
\162\164\040\103\101\055\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\045\241\337\312\063\313\131\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# Certificate "TrustCor ECA-1"

# Issuer: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number: 00:84:82:2c:5f:1c:62:d0:40
# Subject: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:33 2016
# Not Valid After: Mon Dec 31 17:28:07 2029
# Fingerprint (SHA-256):
# Fingerprint (SHA1): 58:D1:DF:95:95:67:6B:63:C0:F0:5B:1C:17:4D:8B:84:0B:C8:78:BD

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor ECA-1"

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\020\123\40\061\101\13\060\001\11\006\003\125\004\006\023\002\120\101
\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\124\123\171\163\164\145
\155\163\040\123\356\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\013\145\162\164\151\146\151\143\141\164\145\040\101\116\151\164
\150\157\162\151\164\171\061\027\060\025\006\003\125\004\003\014
\016\124\162\165\163\164\103\157\162\040\105\013\101\055\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\204\202\054\137\034\142\320\100
CKA_NSS_MOZILLA_CA_POLICY  CK_BBOOL  CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER  CK_BBOOL  CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER  CK_BBOOL  CK_FALSE

# Trust for "TrustCor ECA-1"
# Issuer: CN=TrustCor ECA-1, O=TrustCor Certificate Authority, O=TrustCor Systems S. de R.L., L=Panama
# City, ST=Panama, C=PA
# Serial Number: 00:84:82:2c:5f:1c:62:d0:40
# Subject: CN=TrustCor ECA-1, O=TrustCor Certificate Authority, O=TrustCor Systems S. de R.L., L=Panama
# City, ST=Panama, C=PA
# Not Valid Before: Thu Feb 04 12:32:33 2016
# Not Valid After: Mon Dec 31 17:28:07 2029
# Fingerprint (SHA1): 58:D1:DF:95:95:67:6B:63:C0:F0:5B:1C:17:4D:8B:84:0B:C8:78:BD
CKA_CLASS  CK_OBJECT_CLASS  CKO_NSS_TRUST
CKA_TOKEN  CK_BBOOL  CK_TRUE
CKA_PRIVATE  CK_BBOOL  CK_FALSE
CKA_MODIFIABLE  CK_BBOOL  CK_FALSE
CKA_LABEL UTF8 "TrustCor ECA-1"
CKA_CERT_SHA1_HASH  CK_BBOOL  CK_TRUE
CKA_CERT_MD5_HASH  CK_BBOOL  CK_TRUE
END
Open Source Used In HyperFlex HX Data Platform 4.5(2d) 13215
\037\176\341\125\231\013\041\336\223\236\012\373\346\243\111\275
\066\060\376\347\167\262\240\165\227\265\055\201\210\027\145\040
\367\332\220\000\237\331\123\314\062\312\065\174\365\075\017\330
\053\327\365\046\154\311\006\064\226\026\351\260\131\032\062\171
\171\013\266\210\177\017\122\110\075\277\154\330\242\104\056\321
\116\267\162\130\323\211\023\225\376\104\253\370\327\213\033\156
\234\274\054\240\133\325\152\000\257\137\067\341\325\372\020\013
\230\234\203\347\046\217\316\360\354\156\212\127\013\200\343\116
\262\300\240\143\141\220\272\125\150\067\164\152\266\022\332\237
\241\206\042\266\145\047\016\354\266\237\102\140\344\147\302\265
\332\101\013\304\323\213\141\033\274\372\037\221\053\327\104\007
\136\272\051\254\333\130\065\351\357\123\110\132\353\200\361\050\130
\041\315\260\006\125\373\047\077\123\220\160\251\004\036\127\047
\271
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SSL.com Root Certification Authority RSA"
# Issuer: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Subject: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid After : Tue Feb 12 17:39:39 2041
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority RSA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\267\253\063\010\321\135\210\044\167\272\024\200\022\132\157\275\251\066\111\014\273
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\206\151\022\300\160\361\135\254\254\032\325\274\245\133\241\051
END
CKA_ISSUER MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\140\007\110\157\165\163\164\157
\156\061\030\060\026\066\003\125\004\012\140\017\123\123\140\040
\103\157\162\161\157\162\141\164\151\157\156\061\060\057\006
\003\125\004\003\140\005\123\123\140\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156

Open Source Used In HyperFlex HX Data Platform 4.5(2d) 13218
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SSL.com Root Certification Authority ECC"
# Issuer: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:756:df:cb:c1:68:5b:a8
# Subject: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Fri Feb 12 18:14:03 2016
# Not Valid After : Tue Feb 12 18:14:03 2041
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority ECC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\303\031\174\071\044\346\124\257\033\304\253\046\027\121\072\216
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\056\332\344\071\177\234\217\067\321\160\237\046\027\121\072\216
END
CKA_ISSUER MULTILINE_OCTAL
\060\174\061\013\060\001\110\006\003\125\004\006\023\002\125\123\061
\016\060\101\060\003\125\004\010\014\051\124\145\170\141\163\061
\020\060\101\060\003\125\004\007\140\071\110\157\165\163\164\157
\156\061\030\060\026\060\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\140\050\123\123\142\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\105\103\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\165\346\337\313\301\150\133\250
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "SSL.com EV Root Certification Authority RSA R2"
#
# Issuer: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:56:b6:29:cd:34:bc:78:f6
# Subject: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL
# Trust for “SSL.com EV Root Certification Authority RSA R2”
# Issuer: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number: 56:b6:29:cd:34:bc:78:f6
# Subject: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
CKA_TOKEN CK_BBOOL CK_TRUE  
CKA_PRIVATE CK_BBOOL CK_FALSE  
CKA_MODIFIABLE CK_BBOOL CK_FALSE  
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority ECC"  
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509  
CKA_SUBJECT MULTILINE_OCTAL  
\060\177\061\101\006\011\1006\003\125\004\006\023\002\125\123\061  
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061  
\020\060\016\006\003\125\004\007\014\007\101\157\165\163\164\157  
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040  
\103\157\162\160\157\162\141\164\151\151\157\156\016\064\060\062\006  
\100\015\25\004\003\014\053\123\123\114\056\143\157\155\040\105\126  
\104\012\157\157\164\040\103\145\162\164\151\146\151\143\141\164  
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\105\103  
\103  
END  
CKA_ID UTF8 "0"  
CKA_ISSUER MULTILINE_OCTAL  
\060\177\061\101\006\011\1006\003\125\004\006\023\002\125\123\061  
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061  
\020\060\016\006\003\125\004\007\014\007\101\157\165\163\164\157  
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040  
\103\157\162\160\157\162\141\164\151\151\157\156\016\064\060\062\006  
\100\015\25\004\003\014\053\123\123\114\056\143\157\155\040\105\126  
\104\012\157\157\164\040\103\145\162\164\151\146\151\143\141\164  
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\105\103  
\103  
END  
CKA_SERIAL_NUMBER MULTILINE_OCTAL  
\002\010\054\051\234\133\026\355\005\225  
END  
CKA_VALUE MULTILINE_OCTAL  
\060\020\020\022\224\060\202\002\032\240\003\002\001\1002\002\010\0054  
\051\234\133\026\355\005\225\020\060\010\052\2006\1103\166\075  
\004\003\002\020\060\177\061\013\060\011\006\003\125\004\006\023\002  
\125\123\061\101\060\014\006\003\125\004\010\014\005\124\145\170  
\141\163\061\020\060\016\006\003\125\004\007\014\007\110\157\165  
\163\164\157\156\016\103\060\026\006\003\125\004\012\014\017\123  
\123\114\040\103\157\162\160\157\162\141\164\151\151\157\156\016\064  
\106\062\006\003\125\004\003\014\053\123\123\114\056\143\157\155  
\104\010\051\126\040\122\157\157\164\040\103\145\162\164\151\146\151  
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171  
\140\010\103\103\060\036\027\015\061\066\060\062\061\062\061\070  
\061\065\062\063\132\027\015\054\061\060\062\061\062\061\070\065\062\063\132\020\060\177\061\013\060\011\006\003\125\004\006\023  
\002\125\123\061\016\060\014\006\003\125\004\010\014\005\124\145  
\170\141\163\061\020\060\016\006\003\125\004\007\014\007\110\157  
\165\163\164\157\156\016\103\060\026\006\003\125\004\012\014\017
\123\123\114\040\103\157\162\160\157\162\141\164\151\157\156\061
\064\060\062\006\003\125\004\003\014\053\123\114\056\143\157
\155\040\105\126\040\122\157\156\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\152\151\164
\171\104\105\103\030\060\166\060\020\006\007\052\206\110\316\075
\002\001\006\005\053\201\004\000\042\200\031\42\000\004\252\202\210\07
\220\230\033\373\357\303\100\047\007\052\206\110\316\075
\037\231\324\314\305\007\310\010\037\141\026\007\121\075\175\134
\007\123\334\305\070\214\337\315\237\331\056\151\112\266\031\056
\131\216\132\060\355\276\360\241\260\312\320\011\051\243\143\060
\141\060\035\006\003\125\035\016\026\004\026\241\333\312\136\345
\336\322\201\252\315\250\055\144\121\266\331\162\233\227\346\117
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\037\006\003\125\035\043\004\030\060\026\202\002\241\333\312
\136\345\336\322\201\252\315\250\055\144\121\266\331\162\233\227
\346\117\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\126\060\012\006\010\052\206\110\316\075\004\003\002\200\315
\000\006\145\002\060\110\000\212\346\110\211\067\353\351\325\023\331
\312\324\153\044\363\260\075\207\106\030\032\354\261\337\157\373
\126\272\160\153\307\070\314\355\262\214\117\017\367\361\147\166
\016\203\320\036\121\271\002\060\075\366\043\050\046\114\306\140
\207\223\046\233\262\065\036\272\326\367\074\321\034\316\372\045
\074\246\032\201\253\336\022\017\154\356\145\212\311\027\250
\371\100\340\142\232\214\134\112
END
CKA_NSS MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SSL.com EV Root Certification Authority ECC"
# Issuer: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number: 2c:29:9c:5b:16:ed:05:95
# Subject: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid After: Tue Feb 12 18:15:23 2041
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority ECC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\114\335\121\243\321\136\040\062\024\260\306\035\062\043\003\221
\307\106\102\155
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CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GlobalSign Root CA - R6"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Not Valid Before: Wed Dec 10 00:00:00 2014
# Not Valid After: Sun Dec 10 00:00:00 2034
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R6"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL \200\224\144\016\265\247\241\023\012\107\154\157\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\060\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156

# Certificate "OISTE WISEKey Global Root GC CA"
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "OISTE WISeKey Global Root GC CA"
# Issuer: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Subject: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Not Valid Before: Tue May 09 09:48:34 2017
# Not Valid After : Fri May 09 09:58:33 2042
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GC CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\340\021\204\136\064\336\276\210\201\271\123\156\026\046\132\226
\037\303\271\1061
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\251\326\271\055\060\223\144\370\245\151\132\221\1351\150\007\043
\171\111\123\124\105\040\106\145\113\145\171\040\107\115
\157\142\141\154\040\122\157\157\164\040\107\103\040\103\101
END
CKA_ISSUER MULTILINE_OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145
\171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\105\060\046\006\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\115
\157\142\141\154\040\122\157\157\164\040\107\103\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\041\052\126\014\256\033\014\253\100\105\277\053\242\055
\072\352
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "GTS Root R1"
#
# Issuer: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\061
END

# Trust for "GTS Root R1"
# Issuer: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R1"
CKA_ISSUER MULTILINE_OCTAL
END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "GTS Root R2"
# Trust for "GTS Root R2"
# Issuer: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\322\163\226\052\052\136\071\237\163\077\341\307\036\144\077\003
\070\064\374\115 END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\104\355\232\016\244\011\107\300\362\256\114\243\306\141\260\213
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\066\011\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\156\107\251\306\132\263\347\040\305\060\232\077\150\122
\362\157
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "GTS Root R3"
#
# Issuer: CN=GTS Root R3,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R3,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\066\011\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\063
END
CKA_ID UTF8 "0"
CKA_ISSUER_MULTILINE_OCTAL
\060\107\066\011\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040

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# Trust for “GTS Root R3”
# Issuer: CN=GTS Root R3, O=Google Trust Services LLC, C=US
Certificate "GTS Root R3"

# Subject: CN=GTS Root R3,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After: Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\060\324\044\157\007\333\221\211\212\013\351\111\146\021\135
\214\136\106\345
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\032\171\133\153\004\122\234\135\307\164\063\033\045\232\371\045
END

CKA_ISSUER MULTILINE_OCTAL
\060\107\066\011\106\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\14\10\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\157\164\040\122\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\156\075\150\150\157\154\044\100\171\017\003\125\335
\215\035
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Certificate "GTS Root R4"

# Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After: Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\101\036\060\011\110\060\003\132\004\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\060\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\064
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\101\036\060\011\110\060\003\132\004\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\060\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\156\107\251\310\213\224\266\350\273\073\052\330\242\262
\301\231
END
CKA_VALUE MULTILINE_OCTAL
\060\020\020\002\120\060\020\000\122\124\000\003\002\001\002\002\020\156
\107\251\310\213\222\246\350\273\073\052\330\242\262\301\231\060
\012\006\010\052\020\061\110\075\004\003\000\003\006\107\061\101\030\060
\011\006\003\125\004\006\023\002\125\123\061\042\060\040\006\003
\125\004\012\023\031\107\157\157\147\154\145\040\124\162\165\163
\164\040\123\145\162\166\151\143\145\163\040\114\114\103\061\024
\060\022\006\003\125\004\003\023\013\107\124\123\040\122\157\157
\164\040\122\064\060\036\027\015\061\066\060\060\062\062\060\060
-060\060\060\060\132\027\015\063\060\060\062\062\060\060\060
\060\060\060\060\132\060\107\061\101\030\060\011\006\003\125\004\006\023
\002\125\123\061\042\060\040\006\003\125\004\012\023\031\107\157
\157\147\154\154\040\012\041\162\165\163\164\040\123\145\162\166\151
\143\145\163\040\114\114\103\061\024\024\060\022\006\003\125\004\003
\023\013\107\124\123\040\122\157\157\164\040\122\064\060\166\060
\020\006\007\052\020\061\110\131\067\050\002\001\006\050\053\201\040\000
\042\003\142\000\004\363\164\163\247\150\201\142\140\256\101\030\065
\305\020\060\173\113\113\113\235\373\301\141\131\163\346\336\106\275\153
\325\141\030\068\256\100\133\163\075\121\122\060\132\335\074\435
\205\174\242\100\166\073\251\130\027\107\330\052\347\222\221\152
\163\351\216\162\071\237\051\237\242\230\323\137\136\130\206\145
\017\241\204\145\006\321\334\213\111\170\163\130\214\152\057\345
\304\252\321\135\212\243\102\060\100\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\000\106\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\135\060\003\125\035
# Trust for "GTS Root R4"
# Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R4"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\052\035\140\047\331\112\261\012\034\115\221\134\315\063\240\313
\76\055\124\313

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\135\266\152\304\140\027\044\152\032\231\125\113\356\136\264\046

CKA_ISSUER MULTILINE_OCTAL
\060\07\06\01\13\06\01\11\06\03\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\060\024\060\022\060\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\064

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\156\107\251\310\213\224\266\350\273\073\052\330\242\262
\301\231

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# Certificate "UCA Global G2 Root"

# Issuer: CN=UCA Global G2 Root,O=UniTrust,C=CN
# Subject: CN=UCA Global G2 Root,O=UniTrust,C=CN
# Not Valid Before: Fri Mar 11 00:00:00 2016
# Not Valid After : Mon Dec 31 00:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Global G2 Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
cka_subject multiline_octal
\060\075\061\013\060\011\006\003\125\004\006\023\002\010\013\160\061
\021\060\017\060\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\060\033\060\031\006\003\125\004\003\014\022\125\013\010
\040\107\154\157\142\141\154\040\017\062\040\122\157\157\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\075\060\011\013\060\011\006\003\125\004\006\023\002\010\013\160\061
\021\060\017\060\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\060\033\060\031\006\003\125\004\003\014\022\125\013\010
\040\107\154\157\142\141\154\040\017\062\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\135\337\261\133\132\132\124\135\135\127\13\132\145\040\145\003
\220\357
END
CKA_VALUE MULTILINE_OCTAL
\060\020\051\106\060\102\020\023\056\240\003\002\001\002\002\020\135
\337\261\332\132\124\355\135\127\13\132\145\040\145\003\220\357\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\075
\061\013\006\001\110\060\031\125\004\006\023\002\013\116\061\021\060
\017\006\003\125\004\012\014\010\125\156\151\124\162\165\163\164
\061\033\060\031\006\003\125\004\003\014\022\125\013\101\040\107
\154\157\142\141\154\040\107\062\040\122\157\157\164
\015\061\066\060\063\061\061\060\060\060\060\060\060\132\027\015
\064\060\061\062\063\061\060\060\060\060\060\060\132\060\075\061
\013\060\11\006\003\125\004\006\023\002\013\116\061\021\060\017
\166\237\201\270\204\105\111\114\215\157\242\353\261\314\321\303
\224\332\104\302\346\342\335\203\300\350\242\307\047\005\272\327\345
\326\251\315\335\357\166\230\215\000\016\315\033\372\003\267\216
\200\130\164\047\077\122\337\224\242\312\136\145\311\326\204\332
\271\065\161\163\304\63\000\117\167\346\020\104\372\322\167\073\232\024
\157\171\363\032\304\314\224\242\73\201\121\275\047\005\015
\301\137\53\102\220\060\356\157\215\021\053\010\235\324\324\277\200
\105\024\232\210\104\332\060\352\264\247\343\353\357\133\202\325
\076\326\255\170\022\033\134\074\363\333\025\357\22\015\377\304
\066\050\266\002\025\212\124\054\234\260\027\163\126\320\067\243
\024\074\230\225\000\014\051\005\333\236\111\111\261\137\307\343
\313\137\047\145\216\065\027\267\127\310\060\333\010\133\271\024
\266\350\302\017\224\061\124\224\230\314\152\353\265\341\047\365
\020\250\001\350\216\022\142\350\210\034\265\177\106\227\300\233
\020\146\070\032\066\106\137\042\15\075\337\311\306\023\047\253
\123\006\254\242\074\206\006\145\157\261\1176\261\051\104\232\243
\272\111\151\050\015\127\327\345\137\25\004\206\144\157\032\240
\014\305\010\142\304\200\243\320\036\345\015\336\266\063\307\027
\133\171\200\304\114\114\62\126\246\024\212\303\073\270\011\135\024
\201\027\030\034\312\41\27\066\376\333\057\174\107\241\072\063\310
\371\110\030\134\117\261\312\002\211\004\226\050\150\305\013\270
\046\011\273\326\063\057\120\325\376\232\211\272\030\062\222\124
\306\133\340\239\371\136\345\015\042\233\366\332\342\310\041\262
\142\041\252\206\100\262\056\144\323\137\310\343\176\021\147\105
\037\005\376\034\243\357\263\250\263\363\175\217\370\014\307\042
\037\055\160\264\270\001\064\166\060\000\345\043\170\247\126\327
\120\037\212\373\006\365\302\031\360\320
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "UCA Global G2 Root"
# Issuer: CN=UCA Global G2 Root,O=UniTrust,C=CN
# Subject: CN=UCA Global G2 Root,O=UniTrust,C=CN
# Not Valid Before: Fri Mar 11 00:00:00 2016
# Not Valid After : Mon Dec 31 00:00:00 2040
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Global G2 Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

\050\371\170\026\031\172\377\030\045\030\252\104\376\301\240\316
Open Source Used In HyperFlex HX Data Platform 4.5(2d) 13249
CKA_NSS_Mozilla_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "UCA Extended Validation Root"
# Issuer: CN=UCA Extended Validation Root,O=UniTrust,C=CN
# Subject: CN=UCA Extended Validation Root,O=UniTrust,C=CN
# Not Valid Before: Fri Mar 13 00:00:00 2015
# Not Valid After : Fri Dec 31 00:00:00 2038
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Extended Validation Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL \243\241\260\157\044\141\043\112\343\066\245\302\067\374\246\377
\335\360\327\072
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL \241\363\137\103\306\064\233\332\277\214\176\005\123\255\226\342
END
CKA_ISSUER MULTILINE_OCTAL \060\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\060\043\006\003\125\004\003\014\034\125\103\101
\040\105\170\164\145\156\144\145\144\040\126\141\154\151\144\141
\164\151\157\156\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\020\117\322\053\217\365\144\310\063\236\117\064\130\146\043
\160\140
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Certigna Root CA"
#
# Issuer: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Subject: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Not Valid Before: Tue Oct 01 08:32:27 2013
# Not Valid After: Sat Oct 01 08:32:27 2033
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\034\060\032\006\003\125\004\013\014\023\060\060
\060\062\040\064\070\061\064\066\063\060\070\061\060\060\060\063
\066\061\031\060\027\060\063\013\025\004\000\014\020\013\145\162\164
\151\147\156\141\040\122\157\157\164\040\010\3\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\034\060\032\006\003\125\004\013\014\023\060\060
\060\062\040\064\070\061\064\066\063\060\070\061\060\060\060\063
\066\061\031\060\027\060\063\013\025\004\000\014\020\013\145\162\164
\151\147\156\141\040\122\157\157\164\040\010\3\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\031\235\103\33\211\361\125\003\015\243\346\101\155\304\343\246\341
END
CKA_VALUE MULTILINE_OCTAL
\060\020\006\133\060\022\004\010\3\240\003\002\001\002\002\021\000
\312\351\033\211\361\125\003\015\243\346\101\155\304\343\246\341
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\132\061\013\060\011\006\003\125\004\006\023\002\106\122\061\022
\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157\164
\151\163\061\034\060\032\006\003\125\004\013\014\023\060\060
\062\024\004\070\061\064\066\063\060\070\061\060\060\060\063\066
\061\031\060\027\006\003\125\004\003\014\020\013\145\162\164\151
\147\156\141\040\122\157\157\164\040\013\014\023\060\060\060
\062\024\004\070\061\064\066\063\060\070\061\060\060\060\063\066
\061\031\060\027\006\003\125\004\003\014\020\013\145\162\164\151
\147\156\141\040\122\157\157\164\040\013\014\023\060\060\060
\062\024\004\070\061\064\066\063\060\070\061\060\060\060\063\066
\061\031\060\027\006\003\125\004\003\014\020\013\145\162\164\151
\147\156\141\040\122\157\157\164\040\013\014\023\060\060\060
\062\024\004\070\061\064\066\063\060\070\061\060\060\060\063\066
\061\031\060\027\006\003\125\004\003\014\020\013\145\162\164\151
\147\156\141\040\122\157\157\164\040\013\014\023\060\060\060
\062\024\004\070\061\064\066\063\060\070\061\060\060\060\063\066
\061\031\060\027\006\003\125\004\003\014\020\013\145\162\164\151
\147\156\141\040\122\157\157\164\040\013\014\023\060\060\060
\062\024\004\070\061\064\066\063\060\070\061\060\060\060\063\066
\061\031\060\027\006\003\125\004\003\014\020\013\145\162\164\151
\147\156\141\040\122\157\157\164\040\013\014\023\060\060\060
\062\024\004\070\061\064\066\063\060\070\061\060\060\060\063\066
\061\031\060\027\006\003\125\004\003\014\020\013\145\162\164\151
\147\156\141\040\122\157\157\164\040\013\014\023\060\060\060
Open Source Used in HyperFlex HX Data Platform 4.5(2d) 13254
END

# Trust for "Certigna Root CA"
# Issuer: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Subject: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Not Valid Before: Tue Oct 01 08:32:27 2013
# Not Valid After : Sat Oct 01 08:32:27 2033
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\055\015\122\024\377\236\255\231\044\001\164\040\107\156\154\205
\047\047\365\103
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\016\134\060\142\047\353\133\274\327\256\142\272\351\325\337\167
END
CKA_ISSUER_MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\000\000\033\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\034\060\032\006\003\125\004\013\014\023\060\060
\060\062\040\064\070\061\064\066\063\060\070\061\060\060\060\063
\066\061\031\060\027\006\003\125\004\003\014\020\010\145\162\164
\151\147\156\141\040\122\157\157\164\040\010\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\312\351\033\211\361\125\003\015\243\346\101\155\304
\343\246\341
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "emSign Root CA - G1"
#
# Issuer: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Subject: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

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\377\223\126\113\245\131\006\240\051\335\026\064\165\116
\362\201\264\063\074\140\213\062\252\235\322\202\367\217
\315\263\074\001\054\154\355\231\054\213\331\116\151\230\262
\134\027\346\160\076\065\347\242\267\302\142\342\253\244\070\114
\265\071\065\157\352\003\151\372\072\124\150\205\055\132\262\057
\103\125\036\221\010\163\330\325\321\244\226\321\023\074\054\170
\071\337\102\340\203\010\116\337\243\135\302\026\140\011\100\154\332
\151\013\124\000\213\034\166\151\041\015\171\116\064\010\136\024
\302\314\261\126\275\327\174\160\123\072\205\002\003\000\100\000
\243\102\060\010\060\035\006\003\125\035\316\040\026\000\040\024\373
\357\015\026\326\260\343\333\352\127\016\101\041\027\177\076\374\360
\167\053\032\060\166\006\003\125\035\017\001\100\137\004\004\003
\000\200\010\060\060\017\066\003\125\035\023\001\010\377\004\050\060
\003\000\101\177\060\150\060\011\052\206\110\206\367\015\001
\013\005\000\003\032\200\100\000\131\177\036\221\143\365\207\175\161
\075\324\237\370\033\133\321\332\370\003\032\234\153\066\075\253\235\114
\353\336\026\050\164\075\326\364\165\332\327\272\247\274\102\027
\347\075\221\353\345\175\335\076\234\361\317\222\254\154\110\314
\302\042\077\151\073\035\266\025\057\243\065\306\150\005\203\043\127
\257\071\355\215\322\065\303\030\014\173\000\126\034\315\213\303
\164\336\276\017\022\340\032\025\241\077\002\064\261\160\316\235
\030\326\010\003\011\106\336\140\340\176\266\034\111\004\121\175
\160\140\274\252\262\377\171\162\172\246\035\075\137\052\370\312
\342\375\071\012\67\107\271\335\176\337\004\043\257\372\234\006\007
\351\137\114\323\220\001\265\306\154\012\061\050\316\014\237\317
\263\043\065\200\010\215\154\030\067\173\201\057\200\241\100\102
\205\351\133\107\021\350\241\123\135\011\277\151\350\132\006\362
\105\013\220\372\256\341\277\235\362\256\127\074\245\256\262\126
\364\213\145\100\351\175\061\201\054\346\071\011\330\356\153\247
\262\246\035\025\245\230\367\001\020\133\205\175\63\121\134\161
\210\336\272\314\037\200\176\112
END

# Trust for "emSign Root CA - G1"
# Issuer: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Subject: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
Open Source Used In HyperFlex HX Data Platform 4.5(2d) 13259

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - G1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\212\307\255\217\163\254\116\301\265\165\115\245\100\364\374\317
\174\265\216\214
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\234\102\204\127\335\313\013\247\056\225\255\363\332\274\254
END
CKA_ISSUER MULTILINE_OCTAL
\060\147\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032\006
\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157
\164\040\103\101\040\055\040\107\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\061\365\344\142\014\154\130\355\326\330
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "emSign ECC Root CA - G3"
#
# Issuer: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Serial Number:3c:f6:07:a9:68:70:0eda:8b:84
# Subject: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
# Trust for "emSign ECC Root CA - G3"
# Issuer: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Serial Number:3c:f6:07:a9:68:70:0:eda:8b:84
# Subject: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - G3"

CKA_ISSUER MULTILINE_OCTAL
\316\013\162\321\237\210\216\320\120\003\350\343\270\213\147\100

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\316\013\162\321\237\210\216\320\120\003\350\343\270\213\147\100

END

CKA_ISSUER MULTILINE_OCTAL
\060\153\061\013\060\011\006\003\125\004\006\023\002\111\116\061\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156\040\120\113\111\061\045\060\043\060\003\125\004\012\023\034\145\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147\151\145\163\040\144\151\155\151\164\145\144\061\040\060\036\006\003\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103\040\122\157\157\164\040\103\101\040\055\040\107\063

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
# Certificate "emSign Root CA - C1"

# Issuer: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Serial Number: 00:ae:cf:00:ba:c4:cf:32:f8:43:b2
# Subject: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After: Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL

# Certificate "emSign Root CA - C1"

# Issuer: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Serial Number: 00:ae:cf:00:ba:c4:cf:32:f8:43:b2
# Subject: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After: Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL

# Certificate "emSign Root CA - C1"

# Issuer: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Serial Number: 00:ae:cf:00:ba:c4:cf:32:f8:43:b2
# Subject: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After: Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL

# Certificate "emSign Root CA - C1"

# Issuer: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Serial Number: 00:ae:cf:00:ba:c4:cf:32:f8:43:b2
# Subject: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After: Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL

# Certificate "emSign Root CA - C1"

# Issuer: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Serial Number: 00:ae:cf:00:ba:c4:cf:32:f8:43:b2
# Subject: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After: Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL

# Certificate "emSign Root CA - C1"

# Issuer: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Serial Number: 00:ae:cf:00:ba:c4:cf:32:f8:43:b2
# Subject: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After: Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\373\021\352\232\042\014\021\031\307\136\033\201\120\060\310\226
\022\156\347\131\011\177\221\073\242\107\267\124\200\003\334\000
\314\232\220\032\303\030\120\066\142\014\060\000\025\110\247\250
\131\174\341\256\042\242\342\012\172\017\372\142\253\122\114\341
\361\132\276\203\015\102
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "emSign Root CA - C1"
# Issuer: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Serial Number:00:ae:cf:00:ba:c4:cf:32:f8:43:b2
# Subject: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - C1"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\347\056\361\337\374\262\011\050\176\110\013\060\011\003\125\004\013\023\145\155\123\151\147\156
\040\122\157\157\164
\040\103\061

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\330\343\135\001\041\372\170\132\260\337\272\322\356\052\137\150

CKA_ISSUER MULTILINE_OCTAL
\060\126\066\101\137\060\001\100\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\034\060\032\006\003
\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157\164
\040\103\100\040\055\040\103\061

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\000\256\317\000\272\304\317\062\370\103\262

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "emSign ECC Root CA - C3"

Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US


Subject: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US

Not Valid Before: Sun Feb 18 18:30:00 2018

Not Valid After: Wed Feb 18 18:30:00 2043


CA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CA_TOKEN_BBOOL CK_TRUE

CA_PRIVATE_BBOOL CK_FALSE

CA_MODIFIABLE_BBOOL CK_FALSE

CA_LABEL UTF8 "emSign ECC Root CA - C3"

CA_CERTIFICATE_TYPE CKO_CERTIFICATE_TYPE CKC_X_509

CA_SUBJECT_MULTILINE_OCTAL

CA_ISSUER_MULTILINE_OCTAL

CA_SERIAL_NUMBER_MULTILINE_OCTAL

END

CA_ID_UTF8 "0"

CA_ISSUER_MULTILINE_OCTAL

END

CA_SERIAL_NUMBER_MULTILINE_OCTAL

END

CA_VALUE_MULTILINE_OCTAL

END
# Trust for "emSign ECC Root CA - C3"
# Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Subject: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - C3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\266\257\103\302\233\201\123\175\366\357\153\303\037\037\140\025
\014\356\110\146
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
Certificate "Hongkong Post Root CA 3"

Issuer: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK


Subject: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK

Not Valid Before: Sat Jun 03 02:29:46 2017

Not Valid After: Tue Jun 03 02:29:46 2042


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END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Hongkong Post Root CA 3"
# Issuer: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Subject: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Not Valid Before: Sat Jun 03 02:29:46 2017
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# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\130\242\320\354\040\122\201\301\363\370\144\000\044\116\302\121\002\113\002

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\021\374\237\275\163\060\000\02\212\375\077\363\130\271\130\040\360

CKA_ISSUER MULTILINE_OCTAL
\060\157\061\101\030\060\011\006\003\125\004\006\023\002\110\113\061\022\060\020\006\003\125\004\001\020\033\111\101\157\156\147\040\113\157\156\147\061\122\060\020\006\003\125\004\007\023\011\110\157\156\147\040\113\157\156\147\061\126\060\024\006\003\125\004\012\023\015\110\157\156\147\153\157\156\147\040\120\157\163\164\061\040\060\036\006\003\125\004\003\023\027\110\157\156\147\153\157\156\147\040\120\157\163\164\040\103\101\040\063

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
# Certificate "Entrust Root Certification Authority - G4"

# Issuer: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US

# Serial Number:00:d9:b5:43:7f:a9:39:0f:00:00:00:00:55:65:ad:58

# Subject: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US

# Not Valid Before: Wed May 27 11:11:16 2015

# Not Valid After : Sun Dec 27 11:41:16 2037


CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_B BOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\020\276\061\013\030\060\001\11\006\003\125\004\000\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\145\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\060\003\125\004\013\023\060\050\143\051
\040\062\060\061\065\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\106\062\060
\060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\165\164\171\040\055\040\107
\064

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\020\276\061\013\030\060\001\11\006\003\125\004\000\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\145\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\060\003\125\004\013\023\060\050\143\051
\040\062\060\061\065\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\106\062\060
\060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\165\164\171\040\055\040\107
\064

END
# Trust for "Entrust Root Certification Authority - G4"
# Issuer: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number:00:d9:b5:43:7f:af:a9:39:0f:00:00:00:00:55:65:ad:58
# Subject: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Wed May 27 11:11:16 2015
# Not Valid After : Sun Dec 27 11:41:16 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\024\210\116\200\046\067\260\046\257\131\142\134\100\167\035\065
\051\272\226\001
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\211\123\361\203\043\267\174\216\005\361\214\161\070\116\037\210
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123
Found in path(s):
* /opt/cola/permits/1348498798_1655827029.064334/0/ca-certificates-2020.2.41-70.0.el7_8.src.rpm-cosi-expand-archive-L3IwXukb/certdata.txt
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Found in path(s):
* /opt/cola/permits/1348498798_1655827029.064334/0/ca-certificates-2020.2.41-70.0.el7_8.src.rpm-cosi-expand-archive-L3IwXukb/nssckbi.h

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1.1302 zip 3.0-11

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**1.1303 libffi 3.2.1 4**

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Found in path(s):
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* /opt/cola/permits/1151111069_1617788611.39/0/jetty-io-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/io/SelectChannelEndPoint.java
* /opt/cola/permits/1151111069_1617788611.39/0/jetty-io-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/io/ssl/SslClientConnectionFactory.java
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* /opt/cola/permits/1151111069_1617788611.39/0/jetty-io-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/io/ClientConnectionFactory.java
* /opt/cola/permits/1151111069_1617788611.39/0/jetty-io-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/io/SelectorManager.java
* /opt/cola/permits/1151111069_1617788611.39/0/jetty-io-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/io/NetworkTrafficSelectChannelEndPoint.java
* /opt/cola/permits/1151111069_1617788611.39/0/jetty-io-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/io/HttpSelectChannelEndPoint.java
* /opt/cola/permits/1151111069_1617788611.39/0/jetty-io-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/io/HttpRequestSelectChannelEndPoint.java
* /opt/cola/permits/1151111069_1617788611.39/0/jetty-io-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/io/HttpResponseSelectChannelEndPoint.java
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* /opt/cola/permits/1151111069_1617788611.39/0/jetty-io-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/io/HttpSocketSelectChannelEndPoint.java
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* /opt/cola/permits/1151111069_1617788611.39/0/jetty-io-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/io/HttpResponseSelectorManager.java
1.1305 binutils 2.26.1 1ubuntu1~16.04.8

1.1306 pyvmomi 6.5

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1.1311 procps 3.3.10-4ubuntu2.3

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

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1.1316 cryptography 3.0

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1.1317 libxstst 1.2.2-1
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1.1318 vim 7.4.1689-3ubuntu1.4
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*uganda.txt*  For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL  by Bram Moolenaar

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

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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.

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- 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. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are
on the ICCF web site.

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

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

Sending money:*iccf-donations*

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

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

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

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

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

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

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.

Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:


The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse

If that doesn't work:
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
Finsterruethof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

WHAT IS VIM?

Vim is a greatly improved version of the good old UNIX editor Vi. Many new features have been added: multi-level undo, syntax highlighting, command line history, on-line help, spell checking, filename completion, block operations, script language, etc. There is also a Graphical User Interface (GUI)
available. Still, Vi compatibility is maintained, those who have Vi “in the fingers” will feel at home. See “runtime/doc/vi_diff.txt” for differences with Vi.

This editor is very useful for editing programs and other plain text files. All commands are given with normal keyboard characters, so those who can type with ten fingers can work very fast. Additionally, function keys can be mapped to commands by the user, and the mouse can be used.

Vim runs under MS-Windows (NT, 2000, XP, Vista, 7, 8, 10), Macintosh, VMS and almost all flavours of UNIX. Porting to other systems should not be very difficult. Older versions of Vim run on MS-DOS, MS-Windows 95/98/Me, Amiga DOS, Atari MiNT, BeOS, RISC OS and OS/2. These are no longer maintained.

DISTRIBUTION

You can often use your favorite package manager to install Vim. On Mac and Linux a small version of Vim is pre-installed, you still need to install Vim if you want more features.

There are separate distributions for Unix, PC, Amiga and some other systems. This README.txt file comes with the runtime archive. It includes the documentation, syntax files and other files that are used at runtime. To run Vim you must get either one of the binary archives or a source archive. Which one you need depends on the system you want to run it on and whether you want or must compile it yourself. Check "http://www.vim.org/download.php" for an overview of currently available distributions.

COMPILING

If you obtained a binary distribution you don't need to compile Vim. If you obtained a source distribution, all the stuff for compiling Vim is in the "src" directory. See src/INSTALL for instructions.

INSTALLATION

See one of these files for system-specific instructions. Either in the READMEdir directory (in the repository) or the top directory (if you unpack an archive):

README_ami.txt Amiga
README_unix.txt Unix
README_dos.txt MS-DOS and MS-Windows
README_mac.txt Macintosh
README_vms.txt VMS
There are more README_*.txt files, depending on the distribution you used.

DOCUMENTATION

The Vim tutor is a one hour training course for beginners. Often it can be started as "vmtutor". See ":help tutor" for more information.

The best is to use ":help" in Vim. If you don't have an executable yet, read "runtime/doc/help.txt". It contains pointers to the other documentation files. The User Manual reads like a book and is recommended to learn to use Vim. See ":help user-manual".

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http://vim.wikia.com/wiki/Vim_Tips_Wiki

If you still have problems or any other questions, use one of the mailing
lists to discuss them with Vim users and developers:
http://www.vim.org/maillist.php

If nothing else works, report bugs directly:
Bram Moolenaar <Bram@vim.org>

MAIN AUTHOR

Send any other comments, patches, flowers and suggestions to:

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*/
package org.apache.xalan;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information. This class will replace the older
 * org.apache.xalan.processor.Version class.</P>
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties for
 * information about the version of the XSLT spec we support.</P>
 * @xsl.usage general
 */

public class Version {

/**
 * Get the basic version string for the current Xalan release.
 * Version String formatted like
 * Futurework: have this read version info from jar manifest.
 *
 * @return String denoting our current version
 */

public static String getVersion()
{
    return getProduct() + ImplementationLanguage() + 
        getMajorVersionNum() + ReleaseVersionNum() + 
        (DevelopmentVersionNum() > 0) ? 
            "D" + DevelopmentVersionNum() : "" + MaintenanceVersionNum();
}

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */

public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
* Name of product: Xalan.

```java
/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}
```

```java
/**
 * Major version number.
 * Version number. This changes only when there is a significant, externally apparent enhancement from the previous release. 'n' represents the n'th version.
 * Clients should carefully consider the implications of new versions as external interfaces and behaviour may have changed.
 */
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}
```

```java
/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg, implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}
```

```java
/**
 * Maintenance Drop Number.
 */
```
* Optional identifier used to designate maintenance drop applied to a specific release and contains fixes for defects reported. It maintains compatibility with the release and contains no API changes. When missing, it designates the final and complete development drop for a release.

```java
/**
 * Optional identifier used to designate maintenance drop applied to a specific release and contains fixes for defects reported. It maintains compatibility with the release and contains no API changes. When missing, it designates the final and complete development drop for a release.
 */

public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of a specific release. D01 is the first development drop of a new release.
 * Development drops are works in progress towards a completed, final release. A specific development drop may not completely implement all aspects of a new feature, which may take several development drops to complete. At the point of the final drop for the release, the D suffix will be omitted.
 * Each 'D' drops can contain functional enhancements as well as defect fixes. 'D' drops may not be as stable as the final releases.
 */

public static int getDevelopmentVersionNum()
{
    try {
        if (@version.DEVELOPER@ == 0)
            return 0;
        else
            return Integer.parseInt(@version.DEVELOPER@);
    } catch (NumberFormatException nfe) {
        return 0;
    }
}
```

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*/
/**
* This is a special exception that is used to stop parsing when
* search for an element. For instance, when searching for xml:stylesheet
* PIs, it is used to stop the parse once the document element is found.
* @see StylesheetPIHandler
* @xsl.usage internal
*/

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 */

package org.apache.xml.serializer;

/**
 * Administrative class to keep track of the version number of
 * the Serializer release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information.</P>
 * @xsl.usage general
 */

class Version
{

/**
 * Get the basic version string for the current Serializer.
 * Version String formatted like
 * <CODE>"<B>Serializer</B> <B>Java</B> v.r[.dd| <B>D</B>nn"]</CODE>
 * 
 * Futurework: have this read version info from jar manifest.
 * 
 * @return String denoting our current version
 */
public static String getVersion()
{
    return getProduct() + "\"" +getImplementationLanguage() + "\" 
            +getMajorVersionNum() + "." +getReleaseVersionNum() + ".\""
+(getDevelopmentVersionNum() > 0) ?
   ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum());
}

/**
 * Print the processor version to the command line.
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Serializer.
 */
public static String getProduct()
{
    return "Serializer";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a significant, externally apparent enhancement from the previous release. 'n' represents the n'th version.
 * Clients should carefully consider the implications of new versions as external interfaces and behaviour may have changed.
 */
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}
/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@").length() == 0)
return 0;
else
    return Integer.parseInt("@version.DEVELOPER@");
} catch (NumberFormatException nfe) {
    return 0;
}

*/

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/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */

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// Proprietary
/** The 'document-location()' id (Proprietary). */

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_html.properties

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*/
package org.apache.xalan.xslt.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;
import org.apache.xml.dtm.DTM;
import org.apache.xalan.xslt.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xslt.runtime.Operators;
import org.apache.xalan.xslt.compiler.util.ErrorMsg;

parser code {:
  /**
   * Used by function calls with no args.
   */
  static public final Vector EmptyArgs = new Vector(0);

  /**
   * Reference to non-existing variable.
   */
  static public final VariableRef DummyVarRef = null;

  /**
   * Reference to the Parser class.
   */
  private Parser _parser;
  private XSLTC _xsltc;

  /**
   * String representation of the expression being parsed.
   */
  private String _expression;

  /**
   * Line number where this expression/pattern was declared.
   */
private int _lineNumber = 0;

/**
 * Reference to the symbol table.
 */
public SymbolTable _symbolTable;

public XPathParser(Parser parser) {
    _parser = parser;
    _xsltc = parser.getXSLTC();
    _symbolTable = parser.getSymbolTable();
}

public int getLineNumber() {
    return _lineNumber;
}

public QName getQNameIgnoreDefaultNs(String name) {
    return _parser.getQNameIgnoreDefaultNs(name);
}

public QName getQName(String namespace, String prefix, String localname) {
    return _parser.getQName(namespace, prefix, localname);
}

public void setMultiDocument(boolean flag) {
    _xsltc.setMultiDocument(flag);
}

public void setCallsNodeset(boolean flag) {
    _xsltc.setCallsNodeset(flag);
}

public void setHasIdCall(boolean flag) {
    _xsltc.setHasIdCall(flag);
}

/**
 * This method is similar to findNodeType(int, Object) except that it
 * creates a StepPattern instead of just returning a node type. It also
 * differs in the way it handles "[{uri}]:*" and "[{uri}]:@*". The last two
 * patterns are expanded as "*[namespace-uri() = 'uri']" and
 * "[@*[namespace-uri() = 'uri']]", respectively. This expansion considerably
 * simplifies the grouping of patterns in the Mode class. For this
 * expansion to be correct, the priority of the pattern/template must be
 * set to -0.25 (when no other predicates are present).
 */
public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
    int nodeType;

    if (test == null) { // "*"
        nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
        (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;

        return new StepPattern(axis, nodeType, predicates);
    } else if (test instanceof Integer) {
        nodeType = ((Integer) test).intValue();

        return new StepPattern(axis, nodeType, predicates);  
    } else {
        QName name = (QName)test;
        boolean setPriority = false;

        if (axis == Axis.NAMESPACE) {
            nodeType = (name.toString().equals("*")) ? -1
            : _xsltc.registerNamespacePrefix(name);
        } else {
            final String uri = name.getNamespace();
            final String local = name.getLocalPart();
            final QName namespace_uri =
            _parser.getQNameIgnoreDefaultNs("namespace-uri");

            // Expand {uri}:* to *[namespace-uri() = 'uri'] - same for @*
            if (uri != null && (local.equals("*") || local.equals("@*"))) {
                if (predicates != null) {
                    predicates = new Vector(2);
                }

                setPriority = (predicates.size() == 0);
                predicates.add(
                new Predicate(
                    new EqualityExpr(Operators.EQ,
                    new NamespaceUriCall(namespace_uri),
                    new LiteralExpr(uri))));
            }

            // Priority is set by hand if no other predicates exist
            setPriority = (predicates.size() == 0);
        }

        if (local.equals("*")) {
            nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
            NodeTest.ELEMENT;
        }
else if (local.equals("@*")) {
    nodeType = NodeTest.ATTRIBUTE;
}
else {
    nodeType = (axis == Axis.ATTRIBUTE) ? _xslt.registerAttribute(name) : _xslt.registerElement(name);
}
}

final StepPattern result = new StepPattern(axis, nodeType, predicates);

// Set priority for case prefix:* and prefix:@* (no predicates)
if (setPriority) {
    result.setPriority(-0.25);
}

return result;
}

public int findNodeType(int axis, Object test) {
if (test == null) {  // *
    return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
          (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
}
else if (test instanceof Integer) {
    return ((Integer)test).intValue();
}
else {
    QName name = (QName)test;

    if (axis == Axis.NAMESPACE) {
        return (name.toString().equals("*")) ? -1 :
             _xslt.registerNamespacePrefix(name);
    }
    if (name.getNamespace() == null) {
        final String local = name.getLocalPart();

        if (axis == Axis.NAMESPACE) {
            return (name.toString().equals("*")) ? -1 :
                 _xslt.registerNamespacePrefix(name);
        }
        if (name.getNamespace() == null) {
            final String local = name.getLocalPart();

            if (local.equals("@*")) {
                return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
                 NodeTest.ELEMENT;
            }
            else if (local.equals("@*")) {
                return NodeTest.ATTRIBUTE;
            }
        }
    }
}
return (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name) : _xsltc.registerElement(name);
}

/**
 * Parse the expression passed to the current scanner. If this
 * expression contains references to local variables and it will be
 * compiled in an external module (not in the main class) request
 * the current template to create a new variable stack frame.
 * @param lineNumber Line where the current expression is defined.
 * @param external   Set to <tt>true</tt> if this expression is
 *                   compiled in a separate module.
 * */
public Symbol parse(String expression, int lineNumber) throws Exception {
    try {
        _expression = expression;
        _lineNumber = lineNumber;
        return super.parse();
    } catch (IllegalCharException e) {
        ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
                                     lineNumber, e.getMessage());
        _parser.reportError(Constants.FATAL, err);
    }
    return null;
}

/**
 * Lookup a variable or parameter in the symbol table given its name.
 * @param name Name of the symbol being looked up.
 */
final SyntaxTreeNode lookupName(QName name) {
    final SyntaxTreeNode result = _parser.lookupVariable(name);
    if (result != null)
        return(result);
    else
        return(_symbolTable.lookupName(name));
}

public final voidaddError(ErrorMsg error) {
    _parser.reportError( Constants.ERROR, error);
}
public void report_error(String message, Object info) {
    final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber,
            _expression);
    _parser.reportError(Constants.FATAL, err);
}

public void report_fatal_error(String message, Object info) {
    // empty
}

public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
    if (rlp instanceof Step) {
        return new ParentLocationPath(step, (Step) rlp);
    }
    else if (rlp instanceof ParentLocationPath) {
        final ParentLocationPath plp = (ParentLocationPath) rlp;
        final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
        return new ParentLocationPath(newrlp, plp.getStep());
    }
    else {
        addError(new ErrorMsg(ErrorMsg.INTERNAL_ERR, "XPathParser.insertStep"));
        return rlp;
    }
}

/**
 * Returns true if the axis applies to elements only. The axes
 * child, attribute, namespace, descendant result in non-empty
 * nodesets only if the context node is of type element.
 */
 public boolean isElementAxis(int axis) {
    return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
            axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
}

terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QName;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;
non terminal Expression Predicate, FilterExpr, Step;
non terminal Expression OrExpr, AndExpr, EqualityExpr;
non terminal Expression RelationalExpr, AdditiveExpr;
non terminal Expression MultiplicativeExpr, UnaryExpr;
non terminal Expression VariableReference, FunctionCall;
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;
non terminal Pattern Pattern;
non terminal Pattern LocationPathPattern;
non terminal StepPattern ProcessingInstructionPattern;
non terminal RelativePathPattern RelativePathPattern;
non terminal StepPattern StepPattern;
non terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;
non terminal QName QName, FunctionName, VariableName;
non terminal Integer AxisName, AxisSpecifier;
non terminal Integer ChildOrAttributeAxisSpecifier;

precedence left VBAR;
precedence left OR;
precedence left AND;
precedence nonassoc EQ, NE;
precedence left LT, GT, LE, GE;

precedence left PLUS, MINUS;
precedence left DIV, MOD, MULT;
precedence left DOLLAR;
precedence left ATSIGN;
precedence right DCOLON;

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern
            {: RESULT = pattern; :}
| EXPRESSION Expr:expr
| [: RESULT = expr; :];

/* --------------------------- Patterns ----------------------------------- */

Pattern ::= LocationPathPattern:lpp
[: RESULT = lpp; :]

| LocationPathPattern:lpp VBAR Pattern:p
[: RESULT = new AlternativePattern(lpp, p); :];

LocationPathPattern ::= SLASH
[: RESULT = new AbsolutePathPattern(null); :]

| SLASH RelativePathPattern:rpp
[: RESULT = new AbsolutePathPattern(rpp); :]

| IdKeyPattern:ikp
[: RESULT = ikp; :]

| IdKeyPattern:ikp SLASH RelativePathPattern:rpp
[: RESULT = new ParentPattern(ikp, rpp); :]

| IdKeyPattern:ikp DSLASH RelativePathPattern:rpp
[: RESULT = new AncestorPattern(ikp, rpp); :]

| DSLASH RelativePathPattern:rpp
[: RESULT = new AncestorPattern(rpp); :]

| RelativePathPattern:rpp
[: RESULT = rpp; :];

IdKeyPattern ::= ID LPAREN Literal:l RPAREN
[: RESULT = new IdPattern(l);
  parser.setHasIdCall(true);
:]

| KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN
[: RESULT = new KeyPattern(l1, l2); :];

ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN
[: RESULT = new ProcessingInstructionPattern(l); :];

RelativePathPattern ::= StepPattern:sp
[: RESULT = sp; :]

| StepPattern:sp SLASH RelativePathPattern:rpp
[: RESULT = new ParentPattern(sp, rpp); :]
StepPattern ::= NodeTestPattern:nt
{}
RESULT = parser.createStepPattern(Axis.CHILD, nt, null);
{}

| NodeTestPattern:nt Predicates:pp
{};
RESULT = parser.createStepPattern(Axis.CHILD, nt, pp);
{}

| PROCESSING_INSTRUCTION_PATTERN:pip
{};
RESULT = pip;
{}

| PROCESSING_INSTRUCTION_PATTERN:pip Predicates:pp
{}:
RESULT = (PROCESSING_INSTRUCTION_PATTERN)pip.setPredicates(pp);
{}

| ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt
{}:
RESULT = parser.createStepPattern(axis.intValue(), nt, null);
{}

| ChildOrAttributeAxisSpecifier:axis
NodeTestPattern:nt Predicates:pp
{}:
RESULT = parser.createStepPattern(axis.intValue(), nt, pp);
{}

| ChildOrAttributeAxisSpecifier:axis
PROCESSING_INSTRUCTION_PATTERN:pip
{}:
RESULT = pip; // TODO: report error if axis is attribute
{}

| ChildOrAttributeAxisSpecifier:axis
PROCESSING_INSTRUCTION_PATTERN:pip
Predicates:pp
{}:
// TODO: report error if axis is attribute
RESULT = (PROCESSING_INSTRUCTION_PATTERN)pip.setPredicates(pp);
{}

NodeTestPattern ::= NameTestPattern:nt
{}:
RESULT = nt;
{}

| NODE
{}:
RESULT = new Integer(NodeTest.ANODE);
{}}
| TEXT |
| { : RESULT = new Integer(NodeTest.TEXT); : } |

| COMMENT |
| { : RESULT = new Integer(NodeTest.COMMENT); : } |

| PI |
| { : RESULT = new Integer(NodeTest.PI); : } |

NameTestPattern ::= STAR |
| { : RESULT = null; : } |

| QName:qn |
| { : RESULT = qn; : } |

ChildOrAttributeAxisSpecifier ::= ATSIGN |
| { : RESULT = new Integer(Axis.ATTRIBUTE); : } |

| CHILD DCOLON |
| { : RESULT = new Integer(Axis.CHILD); : } |

| ATTRIBUTE DCOLON |
| { : RESULT = new Integer(Axis.ATTRIBUTE); : } |

Predicates ::= Predicate:p |
| { : Vector temp = new Vector();
  temp.addElement(p);
  RESULT = temp;
  : } |

| Predicate:p Predicates:pp |
| { : pp.insertElementAt(p, 0); RESULT = pp; : } |

Predicate ::= LBRACK Expr:e RBRACK |
| { : RESULT = new Predicate(e); : } |

/* --------------------------- Expressions --------------------------------- */

Expr ::= OrExpr:ex |
| { : RESULT = ex; : } |

OrExpr ::= AndExpr:ae |
| { : RESULT = ae; : } |
OrExpr: oe OR AndExpr: ae
{: RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); :};

AndExpr ::= EqualityExpr: ee
{: RESULT = ee; :}

AndExpr: ae AND EqualityExpr: ee
{: RESULT = new LogicalExpr(LogicalExpr.AND, ae, ee); :};

EqualityExpr ::= RelationalExpr: re
{: RESULT = re; :}

EqualityExpr: ee EQ RelationalExpr: re
{: RESULT = new EqualityExpr(Operators.EQ, ee, re); :}

EqualityExpr: ee NE RelationalExpr: re
{: RESULT = new EqualityExpr(Operators.NE, ee, re); :};

RelationalExpr ::= AdditiveExpr: ae
{: RESULT = ae; :}

RelationalExpr: re LT AdditiveExpr: ae
{: RESULT = new RelationalExpr(Operators.LT, re, ae); :}

RelationalExpr: re GT AdditiveExpr: ae
{: RESULT = new RelationalExpr(Operators.GT, re, ae); :}

RelationalExpr: re LE AdditiveExpr: ae
{: RESULT = new RelationalExpr(Operators.LE, re, ae); :}

RelationalExpr: re GE AdditiveExpr: ae
{: RESULT = new RelationalExpr(Operators.GE, re, ae); :};

AdditiveExpr ::= MultiplicativeExpr: me
{: RESULT = me; :}

AdditiveExpr: ae PLUS MultiplicativeExpr: me
{: RESULT = new BinOpExpr(BinOpExpr.PLUS, ae, me); :}

AdditiveExpr: ae MINUS MultiplicativeExpr: me
{: RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); :};

MultiplicativeExpr ::= UnaryExpr: ue
{: RESULT = ue; :}

MultiplicativeExpr: me MULT UnaryExpr: ue
{: RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); :}
MultiplicativeExpr:me DIV UnaryExpr:ue
{: RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); :}

MultiplicativeExpr:me MOD UnaryExpr:ue
{: RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); :};

UnaryExpr ::= UnionExpr:ue
{: RESULT = ue; :}

| MINUS UnaryExpr:ue
{: RESULT = new UnaryOpExpr(ue); :};

UnionExpr ::= PathExpr:pe
{: RESULT = pe; :}

PathExpr:pe VBAR UnionExpr:rest
{: RESULT = new UnionPathExpr(pe, rest); :};

PathExpr ::= LocationPath:lp
{: RESULT = lp; :}

FilterExpr:fexp
{: RESULT = fexp; :}

FilterExpr:fexp SLASH RelativeLocationPath:rlp
{: RESULT = new FilterParentPath(fexp, rlp); :}

FilterExpr:fexp DSLASH RelativeLocationPath:rlp
{: 
 // Expand '//' into '/descendant-or-self::node()/ or
 // into /descendant-or-self::*/
 //
 int nodeType = DOM.NO_TYPE;
 if (rlp instanceof Step &&
     parser.isElementAxis(((Step) rlp).getAxis()))
 {  
     nodeType = DTM.ELEMENT_NODE;
 }
 final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
 FilterParentPath fpp = new FilterParentPath(fexp, step);
 fpp = new FilterParentPath(fpp, rlp);
 if (fexp instanceof KeyCall == false) {
     fpp.setDescendantAxis();
 }
 RESULT = fpp;
 :};
LocationPath ::= RelativeLocationPath:rlp
{: RESULT = rlp; :}

| AbsoluteLocationPath:alp
{: RESULT = alp; :};

RelativeLocationPath ::= Step:step
{: RESULT = step; :}

| RelativeLocationPath:rlp SLASH Step:step
{:);
if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
    RESULT = step;       // Remove './' from the middle
}
else if (((Step) step).isAbbreviatedDot()) {
    RESULT = rlp;        // Remove '/.' from the end
}
else {
    RESULT =
    new ParentLocationPath((RelativeLocationPath) rlp, step);
}
:

| AbbreviatedRelativeLocationPath:arlp
{: RESULT = arlp; :};

AbsoluteLocationPath ::= SLASH
{: RESULT = new AbsoluteLocationPath(); :}

| SLASH RelativeLocationPath:rlp
{: RESULT = new AbsoluteLocationPath(rlp); :}

| AbbreviatedAbsoluteLocationPath:aalp
{: RESULT = aalp; :};

AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step
{:)
final Step right  = (Step)step;
    final int  axis   = right.getAxis();
    final int  type   = right.getNodeType();
    final Vector predicates = right.getPredicates();

if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {
    // Compress ‘/child:E’ into ‘descendant::E’ - if possible
    if (predicates == null) {
        right.setAxis(Axis.DESCENDANT);
        if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
            RESULT = right;
else {
    // Expand 'rlp//child::E' into 'rlp/descendant::E'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    RESULT = new ParentLocationPath(left, right);
}

else {
    // Expand 'rlp//step' -> 'descendant-or-self::*/step'
    if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
        Step left = new Step(Axis.DESCENDANTORSELF,
            DTM.ELEMENT_NODE, null);
        RESULT = new ParentLocationPath(left, right);
    }
    else {
        // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
        RelativeLocationPath left = (RelativeLocationPath)rlp;
        Step mid = new Step(Axis.DESCENDANTORSELF,
            DTM.ELEMENT_NODE, null);
        ParentLocationPath ppl = new ParentLocationPath(mid, right);
        RESULT = new ParentLocationPath(left, ppl);
    }
}

else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
        DTM.ELEMENT_NODE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}

else {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
        DOM.NO_TYPE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}

};

AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp
    {
        // Expand './' into '/descendant-or-self::*'
        // into /descendant-or-self::*/
int nodeType = DOM.NO_TYPE;
if (rlp instanceof Step &&
        parser.isElementAxis(((Step) rlp).getAxis()))
{
    nodeType = DTM.ELEMENT_NODE;
}
final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
RESULT = new AbsoluteLocationPath(parser.insertStep(step,
(RelativeLocationPath) rlp));
);

Step ::= NodeTest:ntest
  |
    if (ntest instanceof Step) {
      RESULT = (Step)ntest;
    }
    else {
      RESULT = new Step(Axis.CHILD,
        parser.findNodeType(Axis.CHILD, ntest), null);
    }
  |
NodeTest:ntest Predicates:pp
  |
    if (ntest instanceof Step) {
      Step step = (Step)ntest;
      step.addPredicates(pp);
      RESULT = (Step)ntest;
    }
    else {
      RESULT = new Step(Axis.CHILD,
        parser.findNodeType(Axis.CHILD, ntest), pp);
    }
  |
  AxisSpecifier:axis NodeTest:ntest Predicates:pp
  |
    RESULT = new Step(axis.intValue(),
      parser.findNodeType(axis.intValue(), ntest), pp);
  |
  AxisSpecifier:axis NodeTest:ntest
  |
    RESULT = new Step(axis.intValue(),
      parser.findNodeType(axis.intValue(), ntest), null);
| AbbreviatedStep:abbrev
| : RESULT = abbrev; :};

AxisSpecifier ::= AxisName:an DCOLON
| : RESULT = an; :}

| ATSIGN
| : RESULT = new Integer(Axis.ATTRIBUTE); :};

AxisName ::= ANCESTOR
| : RESULT = new Integer(Axis.ANCESTOR); :}

| ANCESTORORSELF
| : RESULT = new Integer(Axis.ANCESTORORSELF); :}

| ATTRIBUTE
| : RESULT = new Integer(Axis.ATTRIBUTE); :}

| CHILD
| : RESULT = new Integer(Axis.CHILD); :}

| DESCENDANT
| : RESULT = new Integer(Axis.DESCENDANT); :}

| DESCENDANTORSELF
| : RESULT = new Integer(Axis.DESCENDANTORSELF); :}

| FOLLOWING
| : RESULT = new Integer(Axis.FOLLOWING); :}

| FOLLOWINGSIBLING
| : RESULT = new Integer(Axis.FOLLOWINGSIBLING); :}

| NAMESPACE
| : RESULT = new Integer(Axis.NAMESPACE); :}

| PARENT
| : RESULT = new Integer(Axis.PARENT); :}

| PRECEDING
| : RESULT = new Integer(Axis.PRECEDING); :}

| PRECEDINGSIBLING
| : RESULT = new Integer(Axis.PRECEDINGSIBLING); :}

| SELF
| : RESULT = new Integer(Axis.SELF); :};
AbbreviatedStep ::= DOT
    { : RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); : }

| DDOT
    { : RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); : }

FilterExpr ::=  PrimaryExpr:primary
    { : RESULT = primary; : }

| PrimaryExpr:primary Predicates:pp
    { : RESULT = new FilterExpr(primary, pp); : }

PrimaryExpr ::= VariableReference:vr
    { : RESULT = vr; : }

| LPAREN Expr:ex RPAREN
    { : RESULT = ex; : }

| Literal:string
    { :
        /*
         * If the string appears to have the syntax of a QName, store
         * namespace info in the literal expression. This is used for
         * element-available and function-available functions, among
         * others. Also, the default namespace must be ignored.
         *
         */
         String namespace = null;
         final int index = string.lastIndexOf(':');

         if (index > 0) {
             final String prefix = string.substring(0, index);
             namespace = parser._symbolTable.lookupNamespace(prefix);
         }
         RESULT = (namespace == null) ? new LiteralExpr(string)
            : new LiteralExpr(string, namespace);
    }

| INT:num
    { :
        long value = num.longValue();
        if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
            RESULT = new RealExpr(value);
        } else {
            if (num.doubleValue() == -0)
                RESULT = new RealExpr(num.doubleValue());
            else if (num.intValue() == 0)
                ...
RESULT = new IntExpr(num.intValue());
else if (num.doubleValue() == 0.0)
    RESULT = new RealExpr(num.doubleValue());
else
    RESULT = new IntExpr(num.intValue());
}
}:

REAL: num
{: RESULT = new RealExpr(num.doubleValue()); :}

FunctionCall: fc
{: RESULT = fc; :};

VariableReference ::= DOLLAR VariableName: varName
{: // An empty qname prefix for a variable or parameter reference
   // should map to the null namespace and not the default URI.
   SyntaxTreeNode node = parser.lookupName(varName);
   if (node != null) {
       if (node instanceof Variable) {
           RESULT = new VariableRef((Variable)node);
       } else if (node instanceof Param) {
           RESULT = new ParameterRef((Param)node);
       } else {
           RESULT = new UnresolvedRef(varName);
       }
   } else {
       RESULT = new UnresolvedRef(varName);
   }
};

FunctionCall ::= FunctionName: fname LPAREN RPAREN
{: if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
   RESULT = new CurrentCall(fname);
 } else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
   RESULT = new NumberCall(fname, parser.EmptyArgs);
 } else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
   RESULT = new StringCall(fname, parser.EmptyArgs);
 }
} else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
    RESULT = new ConcatCall(fname, parser.EmptyArgs);
}
} else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
    RESULT = new BooleanExpr(true);
}
} else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {
    RESULT = new BooleanExpr(false);
}
} else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname);
}
} else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
}
} else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, parser.EmptyArgs);
}
} else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
    RESULT = new PositionCall(fname);
}
} else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
    RESULT = new LastCall(fname);
}
} else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname);
}
} else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname);
}
} else {
    RESULT = new FunctionCall(fname, parser.EmptyArgs);
}

| FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN |
| : |
| if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) [ |
|     RESULT = new ConcatCall(fname, argl);
| ] |
| else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) [ |
|     RESULT = new NumberCall(fname, argl);
| ] |
| else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) [ |
|     parser.setMultiDocument(true);
|     RESULT = new DocumentCall(fname, argl);
| ] |
else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
    RESULT = new BooleanCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
    RESULT = new NotCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
    RESULT = new FormatNumberCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
    RESULT = new UnparsedEntityUriCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
    parser.setHasIdCall(true);
}
else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname)) {
    RESULT = new CeilingCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
    RESULT = new RoundCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
    RESULT = new FloorCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
    RESULT = new ContainsCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
    RESULT = new StartsWithCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
    RESULT = new FunctionAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname)) {
    RESULT = new ElementAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
    RESULT = new LangCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname, argl);
}
else if (parser.getQName(OpenSource.Constants.TRANSLET_URI, "xsltc", "cast").equals(fname)) {
    RESULT = new CastCall(fname, argl);
}
// Special case for extension function nodeset()
    else if (fname.getLocalPart().equals("nodeset") ||
             fname.getLocalPart().equals("node-set")) {
        parser.setCallsNodeset(true);  // implies MultiDOM
        RESULT = new FunctionCall(fname, argl);
    }
else {
    RESULT = new FunctionCall(fname, argl);
}
;

NonemptyArgumentList ::= Argument:arg
{| :
    Vector temp = new Vector();
    temp.addElement(arg);
    RESULT = temp;
;}
| Argument:arg COMMA NonemptyArgumentList:argl
{| : argl.insertElementAt(arg, 0); RESULT = argl; :};

FunctionName ::= QName:fname
{| :
    RESULT = fname;
;};

VariableName ::= QName:vname
{| :
    RESULT = vname;
;};

Argument ::= Expr:ex
{| : RESULT = ex; :};
NodeTest ::= NameTest:nt
{ : RESULT = nt; : }

| NODE
{ : RESULT = new Integer(NodeTest.ANODE); : }

| TEXT
{ : RESULT = new Integer(NodeTest.TEXT); : }

| COMMENT
{ : RESULT = new Integer(NodeTest.COMMENT); : }

| PIPARAM LPAREN Literal:l RPAREN
{ :
    QName name = parser.getQNameIgnoreDefaultNs("name");
    Expression exp = new EqualityExpr(Operators.EQ,
        new NameCall(name),
        new LiteralExpr(l));
    Vector predicates = new Vector();
    predicates.addElement(new Predicate(exp));
    RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
}

| PI
{ : RESULT = new Integer(NodeTest.PI); : ;}

NameTest ::= STAR
{ : RESULT = null; : }

| QName:qn
{ : RESULT = qn; : ;}

QName ::= QNAME:qname
{ : RESULT = parser.getQNameIgnoreDefaultNs(qname); : }

| DIV
{ : RESULT = parser.getQNameIgnoreDefaultNs("div"); : }

| MOD
{ : RESULT = parser.getQNameIgnoreDefaultNs("mod"); : }

| KEY
{ : RESULT = parser.getQNameIgnoreDefaultNs("key"); : }

| ANCESTOR
{ : RESULT = parser.getQNameIgnoreDefaultNs("child"); : }
| ANCESTORORSELF |
| : RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self"); : |

| ATTRIBUTE |
| : RESULT = parser.getQNameIgnoreDefaultNs("attribute"); : |

| CHILD |
| : RESULT = parser.getQNameIgnoreDefaultNs("child"); : |

| DESCENDANT |
| : RESULT = parser.getQNameIgnoreDefaultNs("descendant"); : |

| DESCENDANTORSELF |
| : RESULT = parser.getQNameIgnoreDefaultNs("descendant-or-self"); : |

| FOLLOWING |
| : RESULT = parser.getQNameIgnoreDefaultNs("following"); : |

| FOLLOWINGSIBLING |
| : RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); : |

| NAMESPACE |
| : RESULT = parser.getQNameIgnoreDefaultNs("namespace"); : |

| PARENT |
| : RESULT = parser.getQNameIgnoreDefaultNs("parent"); : |

| PRECEDING |
| : RESULT = parser.getQNameIgnoreDefaultNs("preceding"); : |

| PRECEDINGSIBLING |
| : RESULT = parser.getQNameIgnoreDefaultNs("preceding-sibling"); : |

| SELF |
| : RESULT = parser.getQNameIgnoreDefaultNs("self"); : |

| ID |
| : RESULT = parser.getQNameIgnoreDefaultNs("id"); : |

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/xpath.cup

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*/
/**
 * Execute the proprietary document-location() function, which returns
 * a node set of documents.
 * @xsl.usage advanced
 */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncDoclocation.java
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 */

/*
 * $Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $
 */

/*
 * @author Jacek Ambroziak
 * @author Santiago Pericas-Geertsen
 * @author Morten Jorgensen
 *
 */

package org.apache.xalan.xslt.compiler;

import java_cup.runtime.Symbol;

% %
int last;

void initialize() {
    last = -1;
}

static boolean isWhitespace(int c) {
    return (c == ' ' || c == '	' || c == '' || c == '
' || c == '');
}

/**
   * If symbol is not followed by '::' or ',', then treat it as a
   * name instead of an axis or function (Jira-1912).
   */
Symbol disambiguateAxisOrFunction(int ss) throws Exception {
    // Peek in the input buffer without changing the internal state
    int index = yy_buffer_index;

    // Skip whitespace
    while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
        index++;
    }

    // If end of buffer, can't disambiguate :
    if (index >= yy_buffer_read) {
        // Can't disambiguate, so return as symbol
        return new Symbol(ss);
    }

    // Return symbol if next token is '::' or ','
    return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':')
        ? newSymbol(ss) : newSymbol(sym.QNAME, yytext());
}

/**
   * If symbol is first token or if it follows any of the operators
   * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
   * name instead of a keyword (Jira-1912).
   */
Symbol disambiguateOperator(int ss) throws Exception {
    switch (last) {
    
    }
case -1:       // first token
case sym.ATSIGN:
case sym.DCOLON:
case sym.LPAREN:
case sym.LBRACK:
case sym.COMMA:
case sym.AND:
case sym.OR:
case sym.MOD:
case sym.DIV:
case sym.MULT:
case sym.SLASH:
case sym.DSLSH:
case sym.VBAR:
case sym.PLUS:
case sym.MINUS:
case sym.EQ:
case sym.NE:
case sym.LT:
case sym.LE:
case sym.GT:
case sym.GE:
    return newSymbol(sym.QNAME, yytext());
}
return newSymbol(ss);
}

/**
* If symbol is first token or if it follows any of the operators
* listed in http://www.w3.org/TR/xpath#exprlex then treat as a
* wildcard instead of a multiplication operator
*/
Symbol disambiguateStar() throws Exception {
    switch (last) {
    case -1:       // first token
    case sym.ATSIGN:
case sym.DCOLON:
case sym.LPAREN:
case sym.LBRACK:
case sym.COMMA:
case sym.AND:
case sym.OR:
case sym.MOD:
case sym.DIV:
case sym.MULT:
case sym.SLASH:
case sym.DSLSH:
case sym.VBAR:
case sym.PLUS:
case sym.MINUS:
case sym.EQ:
case sym.NE:
case sym.LT:
case sym.LE:
case sym.GT:
case sym.GE:
    return newSymbol(sym.STAR);
}
return newSymbol(sym.MULT);
}

Symbol newSymbol(int ss) {
    last = ss;
    return new Symbol(ss);
}

Symbol newSymbol(int ss, String value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Long value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Double value) {
    last = ss;
    return new Symbol(ss, value);
}
%
%eofval{
    return newSymbol(sym.EOF);
}%eofval%

%yyexthrow{
    Exception
    %yyexthrow
}

Letter={BaseChar}|{Ideographic}

BaseChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u00FF\u0100-\u0131\u0134-\u013E\u0141-\u0148\u014A-\u017E\u0180-\u01C3\u01CD-\u01F0\u01FA-\u0217\u0250-\u02A8-\u02BB-\u02C1\u0386\u0388-\u038A\u038C\u038E-\u03A3-\u03CE\u03D0-\u03D6\u03DA\u03DC\u03EE\u03F3\u0401-\u040C\u040E-\u044F\u0451-\u045C\u045E-]
NCNameStartChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u02FF\u0370-
\u037D\u037F-\u1FFF\u200C-\u2040\u2070-\u218F\u2C00-\u2FEF\u3001-\uD7FF\uF900-\uFDCF\uFDF0-
\uFFF]; | \u005F | (HighSurrogate) | (LowSurrogate)

HighSurrogate=[\uD800-\uDBFF];

LowSurrogate=[\uDC00-\uDFFF];

%%

"*" { return disambiguateStar(); }
"/" { return newSymbol(sym.SLASH); }
"+" { return newSymbol(sym.PLUS); }
"-" { return newSymbol(sym.MINUS); }
"div" { return disambiguateOperator(sym.DIV); }
"mod" { return disambiguateOperator(sym.MOD); }
"::" { return newSymbol(sym.DCOLON); }
"," { return newSymbol(sym.COMMA); }
"@" { return newSymbol(sym.ATSIGN); }
".." { return newSymbol(sym.DDOT); }
"|" { return newSymbol(sym.VBAR); }
"$" { return newSymbol(sym.DOLLAR); }
"//" { return newSymbol(sym.DSLASH); }
"=" { return newSymbol(sym.EQ); }
"!=" { return newSymbol(sym.NE); }
"<" { return newSymbol(sym.LT); }
"<=" { return newSymbol(sym.LE); }
">=" { return newSymbol(sym.GE); }
"id" { return disambiguateAxisOrFunction(sym.ID); }
"key" { return disambiguateAxisOrFunction(sym.KEY); }
"text()" { return newSymbol(sym.TEXT); }
"text[ \n\r\f]\(\)" { return newSymbol(sym.TEXT); }
"node()" { return newSymbol(sym.NODE); }
"node[ \n\r\f]\(\)" { return newSymbol(sym.NODE); }
"comment()" { return newSymbol(sym.COMMENT); }
"comment[ \n\r\f]\(\)" { return newSymbol(sym.COMMENT); }
"processing-instruction()" { return disambiguateAxisOrFunction(sym.PI); }
"processing-instruction[ \n\r\f]\(\)" { return newSymbol(sym.PI); }
"or" { return disambiguateOperator(sym.OR); }
"and" { return disambiguateOperator(sym.AND); }
"child" { return disambiguateAxisOrFunction(sym.CHILD); }
"attribute" { return disambiguateAxisOrFunction(sym.ATTRIBUTE); }
"ancestor" { return disambiguateAxisOrFunction(sym.ANCESTOR); }
"ancestor-or-self" { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); }

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"descendant"  { return disambiguateAxisOrFunction(sym.DESCENDANT); }
"descendant-or-self"  { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); }
"following"  { return disambiguateAxisOrFunction(sym.FOLLOWING); }
"following-sibling"  { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING); }
"namespace"  { return disambiguateAxisOrFunction(sym.NAMESPACE); }
"parent"  { return disambiguateAxisOrFunction(sym.PARENT); }
"preceding"  { return disambiguateAxisOrFunction(sym.PRECEDING); }
"preceding-sibling"  { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); }
"self"  { return disambiguateAxisOrFunction(sym.SELF); }
["  { return newSymbol(sym.LBRACK); }
]"  { return newSymbol(sym.RBRACK); }
("  { return newSymbol(sym.LPAREN); }
")  { return newSymbol(sym.RPAREN); }
"<PATTERN>"  { initialize(); return new Symbol(sym.PATTERN); }
"<EXPRESSION>"  { initialize(); return new Symbol(sym.EXPRESSION); }
["\^\"\]^\"  { return newSymbol(sym.Literal, yytext().substring(1, yytext().length() - 1)); }
["\^\"\]^\"  { return newSymbol(sym.Literal, yytext().substring(1, yytext().length() - 1)); }
{Digit}+  { return newSymbol(sym.INT, new Long(yytext())); }
{Digit}+{.0}+  { return newSymbol(sym.REAL, new Double(yytext())); }
","{Digit}+  { return newSymbol(sym.REAL, new Double(yytext())); }
","  { return newSymbol(sym.DOT); }
{[NCName]}.{*[NCName]}  { return newSymbol(sym.QNAME, yytext()); }
{[NCName]}.{**}  { return newSymbol(sym.QNAME, yytext()); }
{[NCName]}.{@*}  { return newSymbol(sym.QNAME, yytext()); }
[\s\n\r\f]  /* ignore white space. */
.  { throw new Exception(yytext()); }

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/xpath.lex
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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* */
package org.apache.xalan.processor;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties</P>
 * @deprecated To be replaced by org.apache.xalan.Version.getVersion()
 * @xsl.usage general
 *
 public class XSLProcessorVersion
 {
  
  /**
   * Print the processor version to the command line.
   *
   * @param argv command line arguments, unused.
   */
  public static void main(String argv[])
  {
    System.out.println(S_VERSION);
  }

  /**
   * Constant name of product.
   */
  public static final String PRODUCT = "Xalan";

  /**
   * Implementation Language.
   */
  public static final String LANGUAGE = "Java";

  /**
   * Major version number.
   * Version number. This changes only when there is a
   * significant, externally apparent enhancement from
   * the previous release. 'n' represents the n'th
   * version.
   * Clients should carefully consider the implications
   * of new versions as external interfaces and behaviour
   * may have changed.
   */

public static final int VERSION = @version.VERSION@;

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static final int RELEASE = @version.RELEASE@;

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static final int MAINTENANCE = @version.MINOR@;

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static final int DEVELOPMENT = 0;

/**
 * Version String like <CODE>"<B>Xalan</B> <B>Language</B> v.r<DD| <B>D</B>nn"</CODE>.
 * Semantics of the version string are identical to the Xerces project.</P>
 */
public static final String S_VERSION = PRODUCT+" "+LANGUAGE+" "
+VERSION+"."+RELEASE+"." +
+(DEVELOPMENT > 0 ? ("D"+DEVELOPMENT)
 : (""+MAINTENANCE));
}

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
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jar/org/apache/xalan/transformer/package.html
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jar/org/apache/xalan/templates/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/extensions/package.html
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/package.html

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 */

// Proprietary, built in functions
/** current function string (Proprietary). */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/Keywords.java

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*/

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/...
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Lt.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/PrefixResolver.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_en.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToTextSAXHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Choose.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XSLTC.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_pt_BR.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/NodeCounterGenerator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Stylesheet.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/StartsWithCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/transformer/XalanProperties.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/transformer/KeyIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/transformer/DOM2Helper.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/Hashtable.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/UnionIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/NthIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/avatar/ElemFallback.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_sk.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XSLTC.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ErrorMessages_zh_TW.java
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jar/org/apache/xalan/lib/sql/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/runtime/output/StringOutputBuffer.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/XMLStringDefault.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/IncrementalSAXSource_Xerces.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_ko.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/NodeSortRecord.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/RtMethodGenerator.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/BasisLibrary.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/Parameter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_pl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/XNodeSetForDOM.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_es.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemCopy.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/SerializerConstants.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/dom3/LSSerializerImpl.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/KeyManager.java
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jar/org/apache/xml/serializer/ObjectFactory.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/UnionPathIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemUnknown.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_sl.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/NodeSequence.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_it.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/Util/JavaCupRedirect.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/DOMBuilder.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorDecimalFormat.java
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* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_tr.java
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_fr.java
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/FilteredStepIterator.java
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/CoroutineParser.java
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/output/OutputBuffer.java
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathResultImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/EqualityExpr.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/TransformSnapshot.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMManager.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/processor/ProcessorElement.java
1.1322 gnutls 3.4.10-4ubuntu1.3

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It was later taken over by Matthias Urlichs <smurf@debian.org> and is now maintained by Andreas Metzler <ametzler@debian.org> Eric Dorland <eric@debian.org>, James Westby <jw+debian@jameswestby.net>

It was downloaded from ftp://ftp.gnutls.org/gcrypt/gnutls/

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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DES core in libcrypto

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.


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lib/hcrypto/test_dh.c

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Eclipse

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

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

The following artifacts are EPL and CDDL 1.0.
  * org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
  https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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

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Oracle OpenJDK

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

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

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

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

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.1332 hk2-locator 2.4.0-b34
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Found in path(s):
* /opt/cola/permits/1154060105_1618681070.13/0/websocket-common-9-1-4-v20140401-sources-2-jar/about.html

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* /opt/cola/permits/1154060105_1618681070.13/0/websocket-common-9-1-4-v20140401-sources-2.jar/org/eclipse/jetty/websocket/common/ParseFrame.java
1.1334 cpp 5.4.0-6ubuntu1~16.04.4

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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The precise terms and conditions for copying, distribution and modification follow.

@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

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(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
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which are not part of the work.  For example, Corresponding Source
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the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
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- 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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HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

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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@miiname.miia.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(agi@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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**************************************************************************
*
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*
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1.1337 mgo r2020.11.24
1.1337.1 Available under license:

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BSON library for Go

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1.1338 common 1.0.0
1.1338.1 Available under license:
    ISC

1.1339 python-cffi 1.5.2-1ubuntu1
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1.1340 joda-time 1.6
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1.1341 icu 57

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    #. makefile.*
    # BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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    # 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/.*/g' > $@
[ -s $@ ] || rm -f $@"
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \n| sed '"'s/\($*\)\.o[ :]*/\1.o $@ : /g" > $@; \n[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.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

1.1342 python-idna 2.0-3

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1.1343 buger-jsonparser
52c6e1462ebdfb4f59765ca13bd8fa1c31b1d7eb

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1.1344 pyopenssl 0.15.1-2build1

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Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
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other libraries whose authors decide to use it. You can use it for
your libraries, too.
When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

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

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

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

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

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

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

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

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

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

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

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

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also 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

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

<one line to give the library's name and a brief idea of what it does.>  Copyright (C) <year>  <name of author>
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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_nicstart() for PHY initialization to change this. This driver expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
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* b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

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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.

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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* b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

* 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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1.1348 byte-buddy-agent 1.9.10

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1.1349 kerb-simplekdc 2.0.0
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1.1350 util-linux 2.27.1
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Eclipse

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

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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

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Oracle OpenJDK

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

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html
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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

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

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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

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

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Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
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1.1353 libxcursor 1.1.14-1ubuntu0.16.04.2
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1.1354 gir1.2-gdkpixbuf-2.0 2.32.2-1ubuntu1.2
1.1354.1 Available under license:

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That's all there is to it!
## 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

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* georgemarshall <https://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

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* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

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  * 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 Figovskiy <boris.figovsky@ravellossystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <https://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@elastichost.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 <https://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>
  * HttpHeaders and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <https://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

* Benjamen 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

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
* IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported
* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don’t retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix `util.selectors._fileobj_to_fd` to accept `"long``.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
* Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to ``contrib.securetransport``

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add ``HTTPResponse.geturl`` method to provide `urllib2.urlopen().geturl()` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  * Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
  * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
  * Remove a spurious TypeError from the exception chain inside HTTPConnectionPool._make_request(), also for BaseExceptions.

* Jorge Lopez Silva <https://github.com/jalopezsilva>
  * Added support for forwarding requests through HTTPS proxies.

* Benno Rice <benno@jeamland.net>
  * Allow cadata parameter to be passed to underlying `SSLContext.load_verify_locations()`.

* Keiichi Kobayashi <abok.1k@gmail.com>
  * Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>
  * DOC & LICENSE Update
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* Hod Bin Noon <bin.noon.hod@gmail.com>
  * Test improvements

* Chris Olufson <stycarac@gmail.com>
  * Fix for connection not being released on HTTP redirect and response not preloaded

* [Bastiaan Bakker] <https://github.com/bastiaanb>
  * Support for logging session keys via environment variable `SSLKEYLOGFILE` (Python 3.8+)

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

## 1.1356 xml-apis 2.0.2

### 1.1356.1 Available under license:

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/**
 * Base class for deriving an XML filter.
 *
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 *
 * This class is designed to sit between an `XMLReader` and the client application's event handlers. By default, it
 * does nothing but pass requests up to the reader and events
 * on to the handlers unmodified, but subclasses can override
 * specific methods to modify the event stream or the configuration
 * requests as they pass through.</p>
 *
 * @since SAX 2.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.XMLFilter
 * @see org.xml.sax.XMLReader
 * @see org.xml.sax.EntityResolver
 * @see org.xml.sax.DTDHandler
 * @see org.xml.sax.ContentHandler
 * @see org.xml.sax.ErrorHandler
 */
```

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/**
 * Basic interface for SAX error handlers.
 *
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 * </em>
 * </blockquote>
 *
 * If a SAX application needs to implement customized error
 * handling, it must implement this interface and then register an
 * instance with the XML reader using the
 * [setErrorHandler](https://docs.oracle.com/en/java/javase/11/docs/api/jdk1.11/org/xml/sax/ErrorHandler.html#setErrorHandler)
 * method. The parser will then report all errors and warnings
 * through this interface.
 *
 * If an application does not register an ErrorHandler, XML parsing errors will go unreported
 * and bizarre behaviour may result.
 *
 * For XML processing errors, a SAX driver must use this interface
 * instead of throwing an exception: it is up to the application
 * to decide whether to throw an exception for different types of
 * errors and warnings. Note, however, that there is no requirement that
 * the parser continue to provide useful information after a call to
 * [fatalError](https://docs.oracle.com/en/java/javase/11/docs/api/jdk1.11/org/xml/sax/ErrorHandler.html#fatalError)
 * (in other words, a SAX driver class
 * could catch an exception and report a fatalError).
 *
 * Since SAX 1.0
 * Author David Megginson,
 * sax@megginson.com
 * Version 2.0
 * @see [Parser](https://docs.oracle.com/en/java/javase/11/docs/api/jdk1.11/org/xml/sax/Parser.html)
 * @see [SAXParseException](https://docs.oracle.com/en/java/javase/11/docs/api/jdk1.11/org/xml/sax/SAXParseException.html)
 */

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Public Domain, and comes with NO WARRANTY.</p>

This interface allows access to a list of attributes in
three different ways:

- by attribute index;
- by Namespace-qualified name; or
- by qualified (prefixed) name.

The list will not contain attributes that were declared #IMPLIED but not specified in the start tag. It will also not contain attributes used as Namespace declarations (xmlns*) unless the feature is set to true (it is false by default).

If the namespace-prefixes feature (see above) is false, access by qualified name may not be available; if the feature is false, access by Namespace-qualified names may not be available.

This interface replaces the now-deprecated SAX1 AttributeList interface, which does not contain Namespace support. In addition to Namespace support, it adds the getIndex methods (below).

The order of attributes in the list is unspecified, and will vary from implementation to implementation.

@since SAX 2.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.helpers.AttributeListImpl

This interface replaces the now-deprecated SAX1 AttributeList interface, which does not contain Namespace support. In addition to Namespace support, it adds the getIndex methods (below).

The order of attributes in the list is unspecified, and will vary from implementation to implementation.

@since SAX 2.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.helpers.AttributeListImpl

/
AttributeList implements the deprecated SAX1 \{@link org.xml.sax.AttributeList AttributeList\} interface, and has been replaced by the new SAX2 \{@link org.xml.sax.helpers.AttributesImpl AttributesImpl\} interface.

This class provides a convenience implementation of the SAX \{@link org.xml.sax.AttributeList AttributeList\} interface. This implementation is useful both for SAX parser writers, who can use it to provide attributes to the application, and for SAX application writers, who can use it to create a persistent copy of an element's attribute specifications:

```java
private AttributeList myatts;

public void startElement (String name, AttributeList atts) {
    // create a persistent copy of the attribute list
    // for use outside this method
    myatts = new AttributeListImpl(atts);
}
```

Please note that SAX parsers are not required to use this class to provide an implementation of AttributeList; it is supplied only as an optional convenience. In particular, parser writers are encouraged to invent more efficient implementations.

@deprecated This class implements a deprecated interface, \{@link org.xml.sax.AttributeList AttributeList\}; that interface has been replaced by \{@link org.xml.sax.Attributes Attributes\}, which is implemented in the \{@link org.xml.sax.helpers.AttributesImpl AttributesImpl\} helper class.

@since SAX 1.0
@author David Megginson,
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/*

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/**
* Interface for an XML filter.
* *
* @since SAX 2.0
* @author David Megginson,
*         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.helpers.XMLFilterImpl
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/XMLFilter.java
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/**
* Interface for associating a SAX event with a document location.
* *
* @since SAX 2.0
* @author David Megginson,
*         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.helpers.XMLFilterImpl
*/

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/**
* Interface for associating a SAX event with a document location.
* *
* @since SAX 2.0
* @author David Megginson,
*         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.helpers.XMLFilterImpl
*/
* passing an instance to the application using the content handler's `ContentHandler#setDocumentLocator` method. The application can use the object to obtain the location of any other content handler event in the XML source document.</p>

*<p>Note that the results returned by the object will be valid only during the scope of each content handler method: the application will receive unpredictable results if it attempts to use the locator at any other time.</p>

*SAX parsers are not required to supply a locator, but they are very strongly encouraged to do so. If the parser supplies a locator, it must do so before reporting any other document events. If no locator has been set by the time the application receives the `ContentHandler#startDocument` event, the application should assume that a locator is not available.</p>

*<since SAX 1.0</since><br>
*<author David Megginson</author><br>
*<a href="mailto:sax@megginson.com">sax@megginson.com</a></a><br>
*<version 2.0</version><br>
*<see org.xml.sax.ContentHandler#setDocumentLocator</see><br>
*/

Found in path(s):
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/**
* Receive notification of basic DTD-related events.
*<blockquote>
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*<\blockquote>
*<p>If a SAX application needs information about notations and unparsed entities, then the application implements this interface and registers an instance with the SAX parser using the parser's `setDTDHandler` method. The parser uses the instance to report notation and unparsed entity declarations to the application.</p>

*<p>Note that this interface includes only those DTD events that the XML recommendation requires processors to report: notation and unparsed entity declarations.</p>
<p>The SAX parser may report these events in any order, regardless of the order in which the notations and unparsed entities were declared; however, all DTD events must be reported after the document handler's startDocument event, and before the first startElement event.</p>

It is up to the application to store the information for future use (perhaps in a hash table or object tree). If the application encounters attributes of type "NOTATION", "ENTITY", or "ENTITIES", it can use the information that it obtained through this interface to find the entity and/or notation corresponding with the attribute value.

@since SAX 1.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.Parser#setDTDHandler
@see org.xml.sax.HandlerBase

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  jar/javax/xml/parsers/ConvertToURI.java
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* Default base class for handlers.
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* </blockquote>
* *
* <p>This class implements the default behaviour for four SAX1
interfaces: EntityResolver, DTDHandler, DocumentHandler, and ErrorHandler. It is now obsolete, but is included in SAX2 to support legacy SAX1 applications. SAX2 applications should use the `DefaultHandler` class instead.</p>

Application writers can extend this class when they need to implement only part of an interface; parser writers can instantiate this class to provide default handlers when the application has not supplied its own.</p>

Note that the use of this class is optional.</p>

@deprecated This class works with the deprecated DocumentHandler interface. It has been replaced by the SAX2 class.

@since SAX 1.0

@author David Megginson,

<a href="mailto:sax@megginson.com">sax@megginson.com</a>

@version 2.0

@see org.xml.sax.EntityResolver
@see org.xml.sax/DTDHandler
@see org.xml.sax.DocumentHandler
@see org.xml.sax.ErrorHandler

/*

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 */

/**
 * <strong>DOM Level 3 WD Experimental:</strong>
 * The DOM Level 3 specification is at the stage
 * of Working Draft, which represents work in
 * progress and thus may be updated, replaced,
 * or obsoleted by other documents at any time. <p>
 * <code>XPathEvaluator</code>, which will provide evaluation of XPath 1.0
 * expressions with no specialized extension functions or variables. It is
 * expected that the <code>XPathEvaluator</code> interface will be
 * implemented on the same object which implements the <code>Document</code>
 * interface in an implementation which supports the XPath DOM module.
 * <code>XPathEvaluator</code> implementations may be available from other
* sources that may provide support for special extension functions or
* variables which are not defined in this specification. The methods of
  * XPathExpression should be named with more-XPath-specific names because
  * the interface will often be implemented by the same object which
    * implements document. No change. The point of interfaces is to localize the
    * implementing namespace. This would make the method names unnecessarily
    * long and complex even though there are no conflicts in the interface
  * itself. The new core method getInterface is designed for discovering
  * interfaces of additional modules that may not be directly implemented on
  * the objects to which they are attached. This could be used to implement
  * XPath on a separate object. The user only refers to the separate
  * interfaces and not the proprietary aggregate implementation. Should entity
  * refs be supported so that queries can be made on them? No change. We will
  * not do this now. They are not part of the XPath data model. Note that
  * they may be present in the hierarchy of returned nodes, but may not
  * directly be requested or returned in the node set. What does createResult
  * create when one wants to reuse the XPath? It is not useful. Removed method.
  * Should ordering be a separate flag, or a type of result that can be
    * requested. As a type of result, it can be better optimized in
    * implementations. It makes sense as a type of result. Changed. Removed
  * method. Implementing XPathEvaluator on Document can be a problem due to
  * conflicts in the names of the methods. The working group finds no better
  * solution. GetInterface in Level 3 permits the object to be implemented
  * separately. We should be committed to this. We will leave this issue open
  * to see if we get more feedback on it. How does this interface adapt to
  * XPath 2.0 and other query languages. No change. This interface is not
  * intended to adapt to XPath 2.0 or other languages. The models of these
  * are likely to be incompatible enough to require new APIs. For alternate
  * implementations that can use this API, it can be obtained from different
  * sources. Support for custom variables and functions would be very useful.
  * No change. It is possible for an implementation to supply alternative
  * sources of an XPathEvaluator that can be customized with a custom
  * variable and function context. We do not specify how this is
  * accomplished. It is too complex to address in this version of the XPath
  * DOM.
  * <p>See also the <a href='http://www.w3.org/TR/2002/WD-DOM-Level-3-XPath-20020328'>Document Object
    Model (DOM) Level 3 XPath Specification</a>.</p>
*/

Found in path(s):
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  jar/org/w3c/dom/xpath/XPathEvaluator.java
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/**
* Interface for an element's attribute specifications.
* 
* <blockquote>
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This is the original SAX1 interface for reporting an element’s attributes. Unlike the new Attributes interface, it does not support Namespace-related information.

When an attribute list is supplied as part of a startElement event, the list will return valid results only during the scope of the event; once the event handler returns control to the parser, the attribute list is invalid. To save a persistent copy of the attribute list, use the SAX1 AttributeListImpl helper class.

An attribute list includes only attributes that have been specified or defaulted: #IMPLIED attributes will not be included.

There are two ways for the SAX application to obtain information from the AttributeList. First, it can iterate through the entire list:

```java
public void startElement (String name, AttributeList atts) {
  for (int i = 0; i < atts.getLength(); i++) {
    String name = atts.getName(i);
    String type = atts.getType(i);
    String value = atts.getValue(i);
    [...]
  }
}
```

(Note that the result of getLength() will be zero if there are no attributes.)

As an alternative, the application can request the value or type of specific attributes:

```java
public void startElement (String name, AttributeList atts) {
  String identifier = atts.getValue("id");
  String label = atts.getValue("label");
  [...]
}
```
@deprecated This interface has been replaced by the SAX2

interface, which includes Namespace support.

@since SAX 1.0

@author David Megginson,

<a href="mailto:sax@megginson.com">sax@megginson.com</a>

@version 2.0

@see org.xml.sax.DocumentHandler#startElement startElement

@see org.xml.sax.helpers.AttributeListImpl AttributeListImpl

Found in path(s):

/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/AttributeList.java

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/**
 * Receive notification of general document events.
 *
 * <blockquote>
 * This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.  
 * </blockquote>
 *
 * This was the main event-handling interface for SAX1; in
 * SAX2, it has been replaced by <a href="http://www.saxproject.org/doc-ref/lite.html#DocumentHandler">ContentHandler</a>,
 * which provides Namespace support and reporting
 * of skipped entities.  This interface is included in SAX2 only
 * to support legacy SAX1 applications.
 *
 * The order of events in this interface is very important, and
 * mirrors the order of information in the document itself.  For
 * example, all of an element's content (character data, processing
 * instructions, and/or subelements) will appear, in order, between
 * the startElement event and the corresponding endElement event.
 *
 * Application writers who do not want to implement the entire
 * interface can derive a class from HandlerBase, which implements
 * the default functionality; parser writers can instantiate
 * HandlerBase to obtain a default handler.  The application can find
 * the location of any document event using the Locator interface
 * supplied by the Parser through the setDocumentLocator method.
 *
 * @deprecated This interface has been replaced by the SAX2
 * interface, which includes Namespace support.
 * @since SAX 1.0
 * @author David Megginson,
// NO WARRANTY! This class is in the Public Domain.
/**
 * Factory for creating an XML reader.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
 * for further information.
 * </blockquote>
 *
 * This class contains static methods for creating an XML reader
 * from an explicit class name, or based on runtime defaults:
 *
 * ```java
 * try {
 *   XMLReader myReader = XMLReaderFactory.createXMLReader();
 * } catch (SAXException e) {
 *   System.err.println(e.getMessage());
 * }
 * ```
 *
 * <p><strong>Note to Distributions bundled with parsers:</strong>
 * You should modify the implementation of the no-arguments
 * `createXMLReader` to handle cases where the external
 * configuration mechanisms aren't set up. That method should do its
 * best to return a parser when one is in the class path, even when
 * nothing bound its class name to `<code>org.xml.sax.driver</code>` so
 * those configuration mechanisms would see it.</p>
 *
 * @since SAX 2.0
 * @author David Megginson, David Brownell
 * @version 2.0r2pre3
 */

Found in path(s):

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// This class is in the Public Domain. NO WARRANTY!
/**
 * Encapsulate Namespace logic for use by SAX drivers.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * This class encapsulates the logic of Namespace processing:
 * it tracks the declarations currently in force for each context
 * and automatically processes qualified XML 1.0 names into their
 * Namespace parts; it can also be used in reverse for generating
 * XML 1.0 from Namespaces.
 *
 * Namespace support objects are reusable, but the reset method
 * must be invoked between each session.
 *
 * Here is a simple session:
 *
 * String parts[] = new String[3];
 * NamespaceSupport support = new NamespaceSupport();
 *
 * support.pushContext();
 * support.declarePrefix("");"http://www.w3.org/1999/xhtml");
 * support.declarePrefix("dc", "http://www.purl.org/dc#");
 *
 * String parts[] = support.processName("p", parts, false);
 * System.out.println("Namespace URI: " + parts[0]);
 * System.out.println("Local name: " + parts[1]);
 * System.out.println("Raw name: " + parts[2]);
 *
 * String parts[] = support.processName("dc:title", parts, false);
 * System.out.println("Namespace URI: " + parts[0]);
 * System.out.println("Local name: " + parts[1]);
 * System.out.println("Raw name: " + parts[2]);
 *
 * support.popContext();
 * */
 *
 * Note that this class is optimized for the use case where most
 * elements do not contain Namespace declarations: if the same
 * prefix/URI mapping is repeated for each context (for example), this
* class will be somewhat less efficient.</p>
*
* @since SAX 2.0
* @author David Megginson,
* @version 2.0
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/org/xml/sax/helpers/NamespaceSupport.java
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// NO WARRANTY!  This class is in the public domain.
/**
* Default base class for SAX2 event handlers.
* 
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
* 
* This class is available as a convenience base class for SAX2
* applications: it provides default implementations for all of the
* callbacks in the four core SAX2 handler classes:</p>
* 
* <ul>
* <li>{@link org.xml.sax.EntityResolver EntityResolver}</li>
* <li>{@link org.xml.sax.DTDHandler DTDHandler}</li>
* <li>{@link org.xml.sax.ContentHandler ContentHandler}</li>
* <li>{@link org.xml.sax.ErrorHandler ErrorHandler}</li>
* </ul>
* 
* Application writers can extend this class when they need to
* implement only part of an interface; parser writers can
* instantiate this class to provide default handlers when the
* application has not supplied its own.</p>
*
* This class replaces the deprecated SAX1
* {@link org.xml.sax.HandlerBase HandlerBase} class.</p>
*
* @since SAX 2.0
* @author David Megginson,
* @version 2.0
* @see org.xml.sax.EntityResolver
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.ContentHandler
* @see org.xml.sax.ErrorHandler
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/DefaultHandler.java
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/**
 * Encapsulate an XML parse error or warning.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * This exception will include information for locating the error
 * in the original XML document. Note that although the application
 * will receive a SAXParseException as the argument to the handlers
 * in the [@link org.xml.saxErrorHandler ErrorHandler] interface,
 * the application is not actually required to throw the exception;
 * instead, it can simply read the information in it and take a
 * different action.</p>
 *
 * Since this exception is a subclass of [@link org.xml.sax.SAXException
 * SAXException], it inherits the ability to wrap another exception.</p>
 *
 * @since SAX 1.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.SAXException
 * @see org.xml.sax.Locator
 * @see org.xml.sax.ErrorHandler
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/SAXParseException.java
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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/CharacterData.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/NamedNodeMap.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Text.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/Event.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Notation.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/DocumentEvent.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/EventTarget.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Attr.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ProcessingInstruction.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/EventException.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/traversal/TreeWalker.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/MutationEvent.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Comment.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/EntityReference.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/DocumentFragment.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/CDATASEction.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Node.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/NodeList.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/DocumentType.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/DOMImplementation.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/EventListener.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/traversal/NodeIterator.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Entity.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/DOMException.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Element.java
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/**
 * Basic interface for resolving entities.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * If a SAX application needs to implement customized handling
 * for external entities, it must implement this interface and
 * register an instance with the SAX driver using the
 * {@link org.xml.sax.XMLReader#setEntityResolver setEntityResolver}
 * method.
 *
 * The XML reader will then allow the application to intercept any
 * external entities (including the external DTD subset and external
 * parameter entities, if any) before including them.
 *
 * Many SAX applications will not need to implement this interface,
 * but it will be especially useful for applications that build
 * XML documents from databases or other specialised input sources,
 * or for applications that use URI types other than URLs.
 *
 * The following resolver would provide the application
 * with a special character stream for the entity with the system
 * identifier "http://www.myhost.com/today":
 *
 * import org.xml.sax.EntityResolver;
 * import org.xml.sax.InputSource;
 *
 * public class MyResolver implements EntityResolver {
 *   public InputSource resolveEntity (String publicId, String systemId)
 *   {
 *     if (systemId.equals("http://www.myhost.com/today")) {
 *       // return a special input source
 *       MyReader reader = new MyReader();
 *       return new InputSource(reader);
 *     } else {
 *       // use the default behaviour
 *       return null;
 *     }
 *  }
* }  
* }  
* </pre>  
*  
* <p>The application can also use this interface to redirect system  
* identifiers to local URIs or to look up replacements in a catalog  
* (possibly by using the public identifier). </p>  
*  
* @since SAX 1.0  
* @author David Megginson,  
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>  
* @version 2.0  
* @see org.xml.sax.Parser#setEntityResolver  
* @see org.xml.sax.InputSource  
*/

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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/html/HTMLElement.java  
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/html/HTMLHtmlElement.java  
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/html/HTMLParagraphElement.java  
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/html/HTMLBodyElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2.0.2-sources-2.jar/org/w3c/dom/html/HTMLBRElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2.0.2-sources-2.jar/org/w3c/dom/html/HTMLLabelElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2.0.2-sources-2.jar/org/w3c/dom/html/HTMLFrameElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2.0.2-sources-2.jar/org/w3c/dom/html/XMLDocument.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2.0.2-sources-2.jar/org/w3c/dom/html/HTMLTableRowElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2.0.2-sources-2.jar/org/w3c/dom/html/HTMLSelectElement.java
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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2.0.2-sources-2.jar/org/w3c/dom/html/HTMLFieldSetElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2.0.2-sources-2.jar/org/w3c/dom/html/HTMLLegendElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2.0.2-sources-2.jar/org/w3c/dom/html/HTMLFormElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2.0.2-sources-2.jar/org/w3c/dom/html/HTMLTableElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2.0.2-sources-2.jar/org/w3c/dom/html/HTMLCollection.java
No license file was found, but licenses were detected in source scan.

/**
 * Provide an optional convenience implementation of Locator.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>).</em>
 * </blockquote>
 *
 * This class is available mainly for application writers, who
 * can use it to make a persistent snapshot of a locator at any
 * point during a document parse:
 *
 * Locator locator;
 * Locator startloc;
 *
 * public void setLocator (Locator locator)
 * {   // note the locator
 *     this.locator = locator;
 * }
 *
 * public void startDocument ()
 * {   // save the location of the start of the document
 *     // for future use.
 *     Locator startloc = new LocatorImpl(locator);
 * }
 */

* Normally, parser writers will not use this class, since it
* is more efficient to provide location information only when
* requested, rather than constantly updating a Locater object.
 *
* @since SAX 1.0
* @author David Megginson,
*         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.Locator Locator
*/

Found in path(s):
*/
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/LocatorImpl.java

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* */

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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/FactoryFinder.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/FactoryConfigurationException.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/SAXParserFactory.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/SAXParser.java

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// NO WARRANTY! This class is in the Public Domain.
/**
* Interface for reading an XML document using callbacks.
*<p>
*<em>This module, both source code and documentation, is in the
*Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
*<p>
*/

* <p><strong>Note:</strong> despite its name, this interface does
* not extend the standard Java [ @link java.io.Reader Reader] interface, because reading XML is a fundamentally different activity
* than reading character data.</p>
*<p>
*<p>XMLReader is the interface that an XML parser's SAX2 driver must
* implement. This interface allows an application to set and
* query features and properties in the parser, to register
* event handlers for document processing, and to initiate
* a document parse.</p>
*
*
* <p>All SAX interfaces are assumed to be synchronous: the
* [ @link #parse parse ] methods must not return until parsing
* is complete, and readers must wait for an event-handler callback
* to return before reporting the next event.</p>
*
* <p>This interface replaces the (now deprecated) SAX 1.0 [ @link
* org.xml.sax.Parser Parser ] interface. The XMLReader interface
* contains two important enhancements over the old Parser
* interface:</p>
*
* <ol>
* <li>it adds a standard way to query and set features and
* properties; and</li>
* <li>it adds Namespace support, which is required for many
* higher-level XML standards.</li>
* </ol>
*
* <p>There are adapters available to convert a SAX1 Parser to
* a SAX2 XMLReader and vice-versa.</p>
*
* @since SAX 2.0
* @author David Megginson,
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.XMLFilter
* @see org.xml.sax.helpers.ParserAdapter
* @see org.xml.sax.helpers.XMLReaderAdapter
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/XMLReader.java
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/**
* A single input source for an XML entity.
* *
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
* *
* <em>This class allows a SAX application to encapsulate information
* about an input source in a single object, which may include
* a public identifier, a system identifier, a byte stream (possibly
* with a specified encoding), and/or a character stream.</em>
There are two places that the application will deliver this
input source to the parser: as the argument to the Parser.parse
method, or as the return value of the EntityResolver.resolveEntity
method.</p>

The SAX parser will use the InputSource object to determine how
to read XML input. If there is a character stream available, the
parser will read that stream directly; if not, the parser will use
a byte stream, if available; if neither a character stream nor a
byte stream is available, the parser will attempt to open a URI
connection to the resource identified by the system.

An InputSource object belongs to the application: the SAX parser
shall never modify it in any way (it may modify a copy if
necessary).</p>

@since SAX 1.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.Parser#parse
@see org.xml.sax.EntityResolver#resolveEntity
@see java.io.InputStream
@see java.io.Reader
*/

// NO WARRANTY!  This class is in the Public Domain.
/**
 * Exception class for an unsupported operation.
 *
 * <blockquote>
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * An XMLReader will throw this exception when it recognizes a
 * feature or property identifier, but cannot perform the requested
 * operation (setting a state or value). Other SAX2 applications and
 * extensions may use this class for similar purposes.</p>

@since SAX 2.0
@author David Megginson,
Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/SAXNotSupportedException.java

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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ranges/package.html
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/package.html

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// NO WARRANTY! This class is in the public domain.
/**
 * Adapt a SAX1 Parser as a SAX2 XMLReader.
 *
 * <blockquote>
 * This module, both source code and documentation, is in the
"
* This class wraps a SAX1 [@link org.xml.sax.Parser Parser] and makes it act as a SAX2 [@link org.xml.sax.XMLReader XMLReader], with feature, property, and Namespace support. Note that it is not possible to report [@link org.xml.sax.ContentHandler#skippedEntity skippedEntity] events, since SAX1 does not make that information available.

* This adapter does not test for duplicate Namespace-qualified attribute names.

* @since SAX 2.0
* @author David Megginson, sax@megginson.com
* @version 2.0
* @see org.xml.sax.helpers.XMLReaderAdapter
* @see org.xml.sax.XMLReader
* @see org.xml.sax.Parser
*/
/**
 * Adapt a SAX1 AttributeList as a SAX2 Attributes object.
 *
 * This class is in the Public Domain, and comes with NO WARRANTY of any kind.
 *
 * This wrapper class is used only when Namespace support is disabled -- it provides pretty much a direct mapping from SAX1 to SAX2, except that names and types are interned whenever requested.
 */

// NO WARRANTY! This class is in the public domain.
/**
 * Default implementation of the Attributes interface.
 *
 * This module, both source code and documentation, is in the Public Domain, and comes with NO WARRANTY. See http://www.saxproject.org for further information.
 */
This class provides a default implementation of the SAX2
{@link org.xml.sax.Attributes Attributes} interface, with the
addition of manipulators so that the list can be modified or
reused.  

There are two typical uses of this class:

- to take a persistent snapshot of an Attributes object
  in a [startElement] event; or
- to construct or modify an Attributes object in a SAX2 driver or filter.

This class replaces the now-deprecated SAX1 AttributeListImpl class; in addition to supporting the updated Attributes interface rather than the deprecated AttributeList interface, it also includes a much more efficient implementation using a single array rather than a set of Vectors.  

@since SAX 2.0
@author David Megginson
@version 2.0.1 (sax2r2)

Create a new instance of a class by name.

This module, both source code and documentation, is in the Public Domain, and comes with <strong>NO WARRANTY</strong>. See &lt;a href='http://www.saxproject.org'>http://www.saxproject.org</a> for further information.

This class contains a static method for creating an instance of a class from an explicit class name. It tries to use the thread's context ClassLoader if possible and falls back to using Class.forName(String). It also takes into account JDK 1.2+'s AccessController mechanism for performing its actions. 

This code is designed to run on JDK version 1.1 and later and compile

// NO WARRANTY! This class is in the Public Domain.
/**
 * Create a new instance of a class by name.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the Public Domain, and comes with <strong>NO WARRANTY</strong>. See &lt;a href='http://www.saxproject.org'>http://www.saxproject.org</a> for further information.</em>
 * </blockquote>

No license file was found, but licenses were detected in source scan.
* @author Edwin Goei, David Brownell, Neil Graham
* @version $Id: NewInstance.java,v 1.2 2002/08/26 23:55:45 neilg Exp $
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/helpers/NewInstance.java
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/**
 * Encapsulate a general SAX error or warning.
 *<p>
 *<em>This module, both source code and documentation, is in the Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 *</p>
 *
 *<p>This class can contain basic error or warning information from either the XML parser or the application: a parser writer or application writer can subclass it to provide additional functionality. SAX handlers may throw this exception or any exception subclassed from it.</p>
 *
 *<p>If the application needs to pass through other types of exceptions, it must wrap those exceptions in a SAXException or an exception derived from a SAXException.</p>
 *
 *<p>If the parser or application needs to include information about a specific location in an XML document, it should use the [SAXParseException](org.xml.sax.SAXParseException) subclass.</p>
 *
 *<a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.SAXParseException
*/

Found in path(s):
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// NO WARRANTY! This class is in the Public Domain.
/**
 * Exception class for an unrecognized identifier.
 *
An XMLReader will throw this exception when it finds an
unrecognized feature or property identifier; SAX applications and
extensions may use this class for other, similar purposes.

@since SAX 2.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.SAXNotSupportedException

Found in path(s):
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*/
/**
* Create a new <code>DOMBuilder</code>. The newly constructed parser may
* then be configured by means of its <code>setFeature</code> method,
* and used to parse documents by means of its <code>parse</code>
* method.
* @param mode  The <code>mode</code> argument is either
* `<code>MODE_SYNCHRONOUS</code>` or `<code>MODEASYNCHRONOUS</code>`, if
* `<code>MODE_SYNCHRONOUS</code>` then the
* `<code>DOMBuilder</code>` that is created will operate in synchronous
* mode, if it's `<code>MODEASYNCHRONOUS</code>` then the
* `<code>DOMBuilder</code>` that is created will operate in
* asynchronous mode.
* @param schemaType  An absolute URI representing the type of the schema
* language used during the load of a `<code>Document</code>` using the
* newly created `<code>DOMBuilder</code>`. Note that no lexical
* checking is done on the absolute URI. In order to create a
* `<code>DOMBuilder</code>` for any kind of schema types (i.e. the
* `<code>DOMBuilder</code>` will be free to use any schema found), use the value
* `<code>null</code>`.
* For W3C XML Schema, applications must use the
* value `<code>"http://www.w3.org/2001/XMLSchema"</code>`.
* For XML DTD
* , applications must use the value
* `<code>"http://www.w3.org/TR/REC-xml"</code>`.
* Other Schema languages
* are outside the scope of the W3C and therefore should recommend an
* absolute URI in order to use this method.
* @return The newly created `<code>DOMBuilder</code>` object. This
* `<code>DOMBuilder</code>` is either synchronous or asynchronous
* depending on the value of the `<code>mode</code>` argument. By
* default, the newly created `<code>DOMBuilder</code>` does not contain
* a `<code>DOMErrorHandler</code>`, i.e. the value of the
* `<code>errorHandler</code>` is `<code>null</code>`. However,
* implementations may provide a default error handler at creation
* time. In that case, the initial value of the
* `<code>errorHandler</code>` attribute on the new created
* `<code>DOMBuilder</code>` contains a reference to the default error
* handler.
* @exception DOMException
* NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
* not supported.
*/

```

```

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar.org/w3c/dom/ls/DOMImplementationLS.java
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/**
* Basic interface for SAX (Simple API for XML) parsers.
*
* `<blockquote>`
* `<em>`This module, both source code and documentation, is in the
* Public Domain, and comes with `<strong>`NO WARRANTY`.<p>
* `<blockquote>`
* `<p>`This was the main event supplier interface for SAX1; it has
* been replaced in SAX2 by `{@link org.xml.sax.XMLReader XMLReader}`, which includes Namespace support and sophisticated configurability and extensibility.</p>

* <p>All SAX1 parsers must implement this basic interface: it allows applications to register handlers for different types of events and to initiate a parse from a URI, or a character stream.</p>

* <p>All SAX1 parsers must also implement a zero-argument constructor (though other constructors are also allowed).</p>

* <p>SAX1 parsers are reusable but not re-entrant: the application may reuse a parser object (possibly with a different input source) once the first parse has completed successfully, but it may not invoke the parse() methods recursively within a parse.</p>

* <p>@deprecated This interface has been replaced by the SAX2 `{@link org.xml.sax.XMLReader XMLReader}` interface, which includes Namespace support.</p>

* @author David Megginson, <a href="mailto:sax@megginson.com">sax@megginson.com</a>

* @version 2.0

* @see org.xml.sax.EntityResolver
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.DocumentHandler
* @see org.xml.sax.ErrorHandler
* @see org.xml.sax.HandlerBase
* @see org.xml.sax.InputSource

*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/Parser.java

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/**
  * SAX2 extension handler for DTD declaration events.
  *
  * <blockquote><em>This module, both source code and documentation, is in the Public Domain, and comes with <strong>NO WARRANTY</strong>. </em></blockquote>
  *
  * @deprecated This is an optional extension handler for SAX2 to provide information about DTD declarations in an XML document. XML readers are not required to support this handler, and this handler is not included in the core SAX2 distribution.</p>
* Note that data-related DTD declarations (unparsed entities and notations) are already reported through the \{ @link org.xml.sax.DTDHandler DTDHandler \} interface.

* If you are using the declaration handler together with a lexical handler, all of the events will occur between the \{ @link org.xml.sax.ext.LexicalHandler#startDTD startDTD \} and the \{ @link org.xml.sax.ext.LexicalHandler#endDTD endDTD \} events.

* To set the DeclHandler for an XML reader, use the \{ @link org.xml.sax.XMLReader#setProperty setProperty \} method with the propertyId "http://xml.org/sax/properties/declaration-handler".

* If the reader does not support declaration events, it will throw a \{ @link org.xml.sax.SAXNotRecognizedException SAXNotRecognizedException \} or a \{ @link org.xml.sax.SAXNotSupportedException SAXNotSupportedException \} when you attempt to register the handler.

* @since 1.0
* @author David Megginson,
*      <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 1.0
* @see org.xml.sax.XMLReader
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ext/DeclHandler.java
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/**
* Java-specific class for dynamically loading SAX parsers.
* *
* <blockquote>
* <em>This module, both source code and documentation, is in the Public Domain, and comes with <strong>NO WARRANTY</strong>.<em>
* </em>
* </blockquote>
* *
* <strong>Note:</strong> This class is designed to work with the now-deprecated SAX1 \{ @link org.xml.sax.Parser Parser \} class. SAX2 applications should use \{ @link org.xml.sax.helpers.XMLReaderFactory XMLReaderFactory \} instead.
* *
* ParserFactory is not part of the platform-independent definition of SAX; it is an additional convenience class designed specifically for Java XML application writers. SAX applications can use the static methods in this class to allocate a SAX parser.
* dynamically at run-time based either on the value of the
* `org.xml.sax.parser` system property or on a string containing the class
* name.</p>
*
* <p>Note that the application still requires an XML parser that
* implements SAX1.</p>
*
* @deprecated This class works with the deprecated
*              {@link org.xml.sax.Parser Parser} interface.
* @since SAX 1.0
* @author David Megginson
* @version 2.0r2pre3
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/ParserFactory.java

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/**
 * Adapt a SAX2 XMLReader as a SAX1 Parser.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the Public Domain, and comes with <strong>NO WARRANTY</strong>. </em>
 * </blockquote>
 *
 * <p>This class wraps a SAX2 {@link org.xml.sax.XMLReader XMLReader} and makes it act as a SAX1 { @link org.xml.sax.Parser Parser}. The XMLReader must support a true value for the http://xml.org/sax/features/namespace-prefixes property or parsing will fail with a { @link org.xml.sax.SAXException SAXException}; if the XMLReader

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Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/FilePathToURI.java

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* supports a false value for the http://xml.org/sax/features/namespaces
* property, that will also be used to improve efficiency.</p>
*
* @since SAX 2.0
* @author David Megginson,
*       <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.Parser
* @see org.xml.sax.XMLReader
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/org/xml/sax/helpers/XMLReaderAdapter.java

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/**
* Receive notification of the logical content of a document.
*
* <blockquote>
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* </blockquote>
*
* This is the main interface that most SAX applications
* implement: if the application needs to be informed of basic parsing
* events, it implements this interface and registers an instance with
* the SAX parser using the {@link org.xml.sax.XMLReader#setContentHandler
* setContentHandler} method. The parser uses the instance to report
* basic document-related events like the start and end of elements
* and character data.</p>
*
* The order of events in this interface is very important, and
* mirrors the order of information in the document itself. For
* example, all of an element's content (character data, processing
* instructions, and/or subelements) will appear, in order, between
* the startElement event and the corresponding endElement event.</p>
*
* This interface is similar to the now-deprecated SAX 1.0
* DocumentHandler interface, but it adds support for Namespaces
* and for reporting skipped entities (in non-validating XML
* processors).</p>
*
* Implementors should note that there is also a Java class
* [@link java.net.ContentHandler ContentHandler] in the java.net
* package; that means that it's probably a bad idea to do</p>
*
In fact, "import ...*" is usually a sign of sloppy programming anyway, so the user should consider this a feature rather than a bug.</p>

@since SAX 2.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.XMLReader
@see org.xml.sax.DTDHandler
@see org.xml.sax.ErrorHandler
*/

// Public Domain: no warranty.
/**
 * SAX2 extension handler for lexical events.
 *
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 */

This is an optional extension handler for SAX2 to provide lexical information about an XML document, such as comments and CDATA section boundaries; XML readers are not required to support this handler, and it is not part of the core SAX2 distribution.</p>

The events in the lexical handler apply to the entire document, not just to the document element, and all lexical handler events must appear between the content handler's startDocument and endDocument events.</p>

To set the LexicalHandler for an XML reader, use the
[@link org.xml.sax.XMLReader#setProperty setProperty] method with the propertyId "http://xml.org/sax/properties/lexical-handler". If the reader does not support lexical events, it will throw a
[@link org.xml.sax.SAXNotRecognizedException SAXNotRecognizedException] or a
* { @link org.xml.sax.SAXNotSupported Exception SAXNotSupported Exception } * when you attempt to register the handler.</p>
* 
* @since 1.0
* @author David Megginson,
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 1.0
* @see org.xml.sax.XMLReader#setProperty
* @see org.xml.sax.SAXNotRecognized Exception
* @see org.xml.sax.SAXNotSupported Exception
*/

Found in path(s):
*/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/ext/LexicalHandler.java

1.1357 pulseaudio 8.0 0ubuntu3.2
1.1357.1 Available under license:

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Version 2.1, February 1999

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While we attempt to provide a summary here, it is the ultimate responsibility of the packager to ensure the components they use in their build of PulseAudio meets their license requirements.

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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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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,
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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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include/GL/wglxext.h :

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1.1364 jersey-container-servlet 2.22.2

1.1365 apr 1.6.5

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From strings/apr_strnatcmp.c, include/apr_strings.h:

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 * ~~~~~~~~~~~~~~~~~~~~
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 */

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1.1367 systemd 229-4ubuntu17

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  jar/io/netty/internal/tcnative/SSLPrivateKeyMethodTask.java
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* /opt/cola/permits/1150945477_1617726824.38/0/netty-tcncnative-boringssl-static-2-0-30-final-sources-4.jar/io/netty/internal/tcnative/Library.java
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jar/io/netty/internal/tcnative/Buffer.java
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jar/io/netty/internal/tcnative/SSL.java
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Manifest-Version: 1.0
BoringSSL-Revision: 243b5cc9e33979ae2afa79eaa4e4c8d59db161d4
Bundle-Description: A Mavenized fork of Tomcat Native which incorporates various patches. This artifact is statically linked to BoringSSL and Apache APR.
Apr-Version: 1.6.5
Automatic-Module-Name: io.netty.tcnative.boringssl
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.tcnative-boringssl-static
Archiver-Version: Plexus Archiver
Built-By: norman
Bnd-LastModified: 1584602214305
Bundle-ManifestVersion: 2
Bundle-DocURL: http://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Tool: Bnd-2.1.0.20130426-122213
Export-Package: io.netty.internal.tcnative;version="2.0.30.Final"
Bundle-Name: Netty/TomcatNative [BoringSSL - Static]
Bundle-Version: 2.0.30.Final
BoringSSL-Branch: chromium-stable
Bundle-NativeCode: META-INF/native/libnetty_tcnative.jnilib;osname=macosx;processor=x86_64
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_232

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  jar/io/netty/internal/tcnative/CertificateRequestedCallback.java
  /opt/cola/permits/1150945477_1617726824.38/0/netty-tcnative-boringssl-static-2-0-30-final-sources-4-
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jar/io/netty/internal/tnative/NativeStaticallyReferencedJniMethods.java
* /opt/cola/permits/1150945477_1617726824.38/0/netty-tnative-boringssl-static-2-0-30-final-sources-4-
jar/io/netty/internal/tnative/SniHostNameMatcher.java
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1.1371 goprotobuf
b5d812f8a3706043e23a9cd5babf2e5423744d30

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1.1375 s-nail 14.8.6-1

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hmac_md5():
derived from:

Network Working Group    H. Krawczyk
Request for Comments: 2104    IBM
HMAC: Keyed-Hashing for Message Authentication

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Appendix -- Sample Code

1.1376  bzip2  1.0.6  8ubuntu0.2

1.1376.1 Available under license:

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.1377 pyParsing 2.4.6

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1.1378 libgcrypt 1.6.5-2ubuntu0.2

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* /opt/cola/permits/1151111219_1617788622.76/0/netty-transport-4-1-47-final-sources-5-jar/io/netty/channel/ChannelConfig.java
* /opt/cola/permits/1151111219_1617788622.76/0/netty-transport-4-1-47-final-sources-5-jar/io/netty/channel/socket/nio/ProtocolFamilyConverter.java
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* /opt/cola/permits/1151111219_1617788622.76/0/netty-transport-4-1-47-final-sources-5-jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java
* /opt/cola/permits/1151111219_1617788622.76/0/netty-transport-4-1-47-final-sources-5-jar/io/netty/channel/oio/AbstractOioByteChannel.java
* /opt/cola/permits/1151111219_1617788622.76/0/netty-transport-4-1-47-final-sources-5-jar/io/netty/channel/DefaultFileRegion.java
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  jar/io/netty/channel/DefaultSelectStrategyFactory.java
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  jar/io/netty/channel/ServerBootstrapConfig.java
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  jar/io/netty/channel/PreferHeapByteBufAllocator.java
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* /opt/cola/permits/1151111219_1617788622.76/0/netty-transport-4-1-47-final-sources-5-jar/io/netty/channel/SelectStrategy.java
* /opt/cola/permits/1151111219_1617788622.76/0/netty-transport-4-1-47-final-sources-5-jar/io/netty/channel/socket/DuplexChannel.java

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* /opt/cola/permits/1151111219_1617788622.76/0/netty-transport-4-1-47-final-sources-5-jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
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* /opt/cola/permits/1151111219_1617788622.76/0/netty-transport-4-1-47-final-sources-5-jar/io/netty/channel/socket/ChannelOutputShutdownException.java
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* /opt/cola/permits/1151111219_1617788622.76/0/netty-transport-4-1-47-final-sources-5-jar/io/netty/channel/default/DefaultMessageSizeEstimator.java
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//@
/**
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its {@link ChannelPipeline}. *
* <h3>Sub-types</h3>
* <p>
* {@link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its
* subtypes:
* <ul>
* <li>{@link ChannelInboundHandler} to handle inbound I/O events, and</li>
* </ul>
* <p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
* </ul>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>
*
* <h3>The context object</h3>
* <p>
* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext} object. A {@link ChannelHandler} is supposed to interact with the
* {@link ChannelPipeline} it belongs to via a context object. Using the
* context object, the {@link ChannelHandler} can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using {@link AttributeKey}s) which is specific to the handler.
* </p>
* <h3>State management</h3>
* <p>
* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* 
*<pre>
public interface Message {
    // your methods here
}

public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
    private boolean loggedIn;

    @Override
    public void channelRead0(ChannelHandlerContext ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }
    ...
}

Because the handler instance has a state variable which is dedicated to
one connection, you have to create a new handler instance for each new
channel to avoid a race condition where a unauthenticated client can get
the confidential information:

// Create a new handler instance per channel.
// See ChannelInitializer#initChannel(Channel).
public class DataServerInitializer extends ChannelInitializer<Channel> {
    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}

Using AttributeKey

Although it's recommended to use member variables to store the state of a
handler, for some reason you might not want to create many handler instances.
In such a case, you can use AttributeKey which is provided by
[@link ChannelHandlerContext]:

public interface Message {


* // your methods here
* }
*
* { @code @Sharable}
* public class DataServerHandler extends { @link SimpleChannelInboundHandler} &lt;Message&gt; { 
* private final { @link AttributeKey} &lt;@ link Boolean &gt; auth =
* { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
* }
*
* { @code @Override}
* public void channelRead({ @link ChannelHandlerContext} ctx, Message message) {
* { @link Attribute} &lt;@ link Boolean &gt; attr = ctx.attr(auth);
* if (message instanceof LoginMessage) {
* authenticate((LoginMessage) o);
* &lt;b&gt;attr.set(true)&lt;/b&gt;;
* } else (message instanceof GetDataMessage) {
* if ( &lt;b&gt;Boolean.TRUE.equals(attr.get())&lt;/b&gt;) {
* ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
* } else {
* fail();
* }
* }
* ...
* }
* </pre>
* Now that the state of the handler is attached to the { @link ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends { @link ChannelInitializer}&lt;@ link Channel &gt; { 
* 
* private static final DataServerHandler &lt;b&gt;SHARED&lt;/b&gt; = new DataServerHandler();
* 
* { @code @Override}
* public void initChannel({ @link Channel} channel) {
* channel.pipeline().addLast("handler", &lt;b&gt;SHARED&lt;/b&gt;;
* }
* }
* </pre>
*
* <h4>The { @code @Sharable} annotation</h4>
* In the example above which used an { @link AttributeKey},
* you might have noticed the { @code @Sharable} annotation.
* <p>
* If a { @link ChannelHandler} is annotated with the { @code @Sharable}
* annotation, it means you can create an instance of the handler just once and
* add it to one or more { @link ChannelPipeline}s multiple times without
* a race condition.
* 
* If this annotation is not specified, you have to create a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* 
* This annotation is provided for documentation purpose, just like
* 
* Additional resources worth reading
* 
* Please refer to the [@link ChannelHandler], and
* [@link ChannelPipeline] to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
* /

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1.1387 mime-support 3.59ubuntu1
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Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Source: git://anonscm.debian.org/collab-maint/mime-support.git

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1.1390 boost 1.46.1

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1.1391 glib 2.48.2 0ubuntu4.4

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  jar/com/google/common/collection/AbstractBiMap.java
* /opt/cola/permits/1137595975_1614104312.37/0/google-collections-1.0-sources-1-
  jar/com/google/common/collection/Lists.java
* /opt/cola/permits/1137595975_1614104312.37/0/google-collections-1.0-sources-1-
  jar/com/google/common/base/FinalizableReference.java
* /opt/cola/permits/1137595975_1614104312.37/0/google-collections-1.0-sources-1-
  jar/com/google/common/collection/ForwardingCollection.java
* /opt/cola/permits/1137595975_1614104312.37/0/google-collections-1.0-sources-1-
  jar/com/google/common/collection/ByFunctionOrdering.java
* /opt/cola/permits/1137595975_1614104312.37/0/google-collections-1.0-sources-1-
  jar/com/google/common/collection/EnumHashBiMap.java
* /opt/cola/permits/1137595975_1614104312.37/0/google-collections-1.0-sources-1-
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* /opt/cola/permits/1137595975_1614104312.37/0/google-collections-1.0-sources-1-
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* /opt/cola/permits/1137595975_1614104312.37/0/google-collections-1.0-sources-1-
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 */

package io.swagger.annotations;

import java.lang.annotation.Annotation;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
 * @since 1.5.0
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

/**
 * The name of the license.
 *
 * @return the name of the license
 */
String name();

/**
 * An optional URL for the license.
 *
 * @return an optional URL for the license.
 */
String url() default "";
}

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1.1402 httpcomponents-client 4.3.3

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Martin Richards
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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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# The agreement for individuals can be filled out on the web.
#
# Names should be added to this file like so:
#   Individual's name <submission email address>
#   Individual's name <submission email address> <email2> <emailN>
#
# An entry with multiple email addresses specifies that the
# first address should be used in the submit logs and
# that the other addresses should be recognized as the
# same person when interacting with Gerrit.
# Please keep the list sorted.

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  jar/com/ctc/wstx/sw/OutputElementBase.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-
  jar/com/ctc/wstx/sw/SimpleOutputElement.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-
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* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sax/SAXProperty.java  
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* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sax/WrappedSaxException.java  
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sax/SAXFeature.java

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* /opt/cola/permits/1135936598_1613638434.jar/com/ctc/wstx/sw/NsInputElementStack.java
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* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/dtd/DTDId.java

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

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

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

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

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

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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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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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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!

--------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected 
in released code until Nov 2009 - slow release cycle...)
--------

Discussion thread from mailing list archive, with approval from everyone actively 
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly 
and see if he wants to relicense his code as LGPL... but at this point, 
it was enough to just get it consistent and documented as to what it was 
released under. This wasn't actually a license change, just a 
clarification of the licensing that was already in place.=20

-- Nathan
=20
_____________________________________________
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
> >=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> > directly
> > and see if he wants to relicense his code as LGPL... but at this
> > point,
> > it was enough to just get it consistent and documented as to what
> > it was
> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
> > the original license (before moving to sourceforge -- aka, 2.7) was
> > not
> > GPL-2 ... it was a modified artistic license ... i didnt notice the
> > license
> > change until it was mentioned in the latest notes.
> > unlike the old license, GPL-2 prevents people from using cracklib
> > unless their
> > applications are also GPL-2 which imo is just wrong. it isnt the
> > place of a
> > library to dictact to application writes what license they should
> > be using.
> > thus LGPL-2.1 enters to fill this void.
> > -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?
What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone’s best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.
In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> > >
> > > I am sympathetic. Guys, what do you reckon?
> > >
> > > What I am hearing so far is that LGPL makes sense, since it can be
> > > 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.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959); Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
Any chance you could write me a self-contained email stating clearly
that the license is being changed to GPL, so I could include that
email
in the repository and clean up the repository/tarballs? I have all the
original discussion, but something succinct and self contained
would be
ideal.
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a
Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: cracklib
Upstream-Contact: Nathan Neulinger <nneul@umr.edu>
Source: http://sourceforge.net/projects/cracklib

Files: *
Copyright: 1993 Alec Muffett <alecm@crypto.dircon.co.uk>
               2005-2014 Nathan Neulinger <nneul@umr.edu>
               2008-2014 Jan Dittberner <jan@dittberner.info>
License: LGPL-2.1
Comment:
Starting from version 2.8.15 released on 2009-11-19 cracklib is licensed under the terms of the LGPL 2.1. For a
detailed discussion and history see README-LICENSE.

Files: debian/*
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               Martin Pitt <martin@piware.de>
               Jan Dittberner <jandd@debian.org>
License: LGPL-2.1

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The upstream sources can be found at http://sourceforge.net/projects/strace/

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the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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If distribution of object code is made by offering access to copy
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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
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HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiam.e.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Jansen (jansen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

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3. mailto:dast@nlanr.net
5. http://dast.nlanr.net/
7. http://moat.nlanr.net/

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## xwd v1.0.7

### xwd utility

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Mesa 3-D graphics library

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include/GL/wglxext.h :

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  */opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java
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**1.1456 netty-transport-native-unix-common**

**4.1.47.Final**

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**1.1459 jettison 1.3**

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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.

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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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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 combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

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

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

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

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1.1467 pycryptodome 3.10.1

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1.1468 dhcp 4.3.3 5ubuntu12.9

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

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* atf-c/u.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c0ff2bb5b6,
Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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  <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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Manifest-Version: 1.0
Bnd-LastModified: 1472011116283
Build-Jdk: 1.7.0_79
Built-By: tatu
Bundle-Description: Woodstox is a high-performance XML processor that implements Stax (JSR-173), SAX2 and Stax2 APIs
Bundle-DocURL: https://github.com/FasterXML/woodstox
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Woodstox
Bundle-SymbolicName: com.fasterxml.woodstox.woodstox-core
Bundle-Vendor: FasterXML
Bundle-Version: 5.0.3
Created-By: Apache Maven Bundle Plugin
Export-Package: com.ctc.wstx.api;version="5.0.3",com.ctc.wstx.cfg;version="5.0.3",com.ctc.wstx.compat;version="5.0.3",com.ctc.wstx.dom;version="5.0.3",com.ctc.wstx.dtd;version="5.0.3",com.ctc.wstx.ent;version="5.0.3",com.ctc.wstx.ev;version="5.0.3",com.ctc.wstx.exc;version="5.0.3",com.ctc.wstx.io;version="5.0.3",com.ctc.wstx.msv;version="5.0.3",com.ctc.wstx.osgi;version="5.0.3",com.ctc.wstx.sax;version="5.0.3",com.ctc.wstx.sr;version="5.0.3",com.ctc.wstx.stax;version="5.0.3",com.ctc.wstx.sw;version="5.0.3",com.ctc.wstx.util;version="5.0.3"
Implementation-Build-Date: 2016-08-24 03:58:19+0000
Implementation-Title: Woodstox
Implementation-Vendor: FasterXML
Implementation-Vendor-Id: com.fasterxml.woodstox
Implementation-Version: 5.0.3
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Specification-Title: Woodstox
Specification-Vendor: FasterXML
Specification-Version: 5.0.3
Tool: Bnd-2.3.0.201405100607
X-Compile-Source-JDK: 1.6
X-Compile-Target-JDK: 1.6

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* /opt/cola/permits/1135953508_1613640887.59/0/woodstox-core-5-0-3-3-jar/META-INF/MANIFEST.MF

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1.1482 jjwt 0.9.1

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Found in path(s):
Manifest-Version: 1.0
Export-Package: io.jsonwebtoken;version="0.9.1",io.jsonwebtoken.lang;version="0.9.1"
Implementation-Title: JSON Web Token support for the JVM
Implementation-Version: 0.9.1
Built-By: lhazlewood
Tool: Bnd-3.3.0.201609221906
Bundle-Name: JSON Web Token support for the JVM
Created-By: Apache Maven Bundle Plugin
Implementation-URL: https://github.com/jjwt/jjwt
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"
Implementation-Vendor-Id: io.jsonwebtoken
Bundle-Version: 0.9.1
Build-Jdk: 1.7.0_80
Bnd-LastModified: 1530831044984
Bundle-ManifestVersion: 2
Specification-Title: JSON Web Token support for the JVM
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-Description: Sonatype helps open source projects to set up Maven repositories on https://oss.sonatype.org/
Bundle-SymbolicName: io.jsonwebtoken.jjwt
Import-Package: android.util;resolution:=optional,org.bouncycastle.jce;resolution:=optional;version="[1.56,2)",org.bouncycastle.jce.spec;resolution:=optional;version="[1.56,2)",com.fasterxml.jackson.core;version="[2.9,3)",com.fasterxml.jackson.databind;version="[2.9,3)",io.jsonwebtoken.lang,javax.crypto,javax.crypto.spec,javax.xml.bind
Specification-Version: 0.9.1

Found in path(s):
* /opt/cola/permits/1227291717_1636733529.67/0/jjwt-0-9-1-jar/META-INF/MANIFEST.MF

1.1483 base-passwd 3.5.39
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1.1487 jersey-media-jaxb 2.22.2

1.1488 libjpeg 6a
1.1488.1 Available under license :
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 * jcinit.c
 *
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 *
 * 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.
 */
Open Source Used In HyperFlex HX Data Platform 4.5(2d) 15183

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/
* transupp.c
*
* Copyright (C) 1997-2017, Thomas G. Lane, Guido Vollbeding.
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*
* 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.
*/

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*
* 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.
*/

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/
* jfdctint.c
*
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*
* 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,
  * 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 FDCT routines with various input sample block sizes for
  * direct resolution reduction or enlargement and for direct resolving the
  * common 2x1 and 1x2 subsampling cases without additional resampling: NxN
  * (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 output DCT block.
  *
  * For N<8 we fill the remaining block coefficients with zero.
  * For N>8 we apply a partial N-point FDCT on the input samples, computing
  * just the lower 8 frequency coefficients and discarding the rest.
  *
  * We must scale the output coefficients of the N-point FDCT appropriately
  * to the standard 8-point FDCT level by 8/N per 1-D pass. This scaling
  * is folded into the constant multipliers (pass 2) and/or final/initial
  * shifting.
  *
  * 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.
  */

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* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jfdctint.c
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/ *
* jddctmgr.c
* *
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* *
* 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.

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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.
 */
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* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdctfst.c
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/*
 * jdctfst.c
 *
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 *
 * This file contains routines to write JPEG datastream markers.
 */

Found in path(s):
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/*
 * jcmarker.c
 *
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 *
 * This file contains routines to write JPEG datastream markers.
 */

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* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/wrrle.c
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/*
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 *
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 *
 * 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.
 */

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* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcmaster.c
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/*
 * jcmaster.c
 *
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*
* 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).
*/

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 * jdmainct.c
 *
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 *
 * This file contains the main buffer controller for decompression.
 * The main buffer lies between the JPEG decompressor proper and the
 * post-processor; it holds downsampled data in the JPEG colorspace.
 *
 * Note that this code is bypassed in raw-data mode, since the application
 * supplies the equivalent of the main buffer in that case.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdmainct.c
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 * jdmerge.c
 *
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 *
 * 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
In the conversion equations
\[ R = Y + K_1 \cdot Cr \]
\[ G = Y + K_2 \cdot Cb + K_3 \cdot Cr \]
\[ B = Y + K_4 \cdot Cb \]
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:
YCC => RGB color conversion only (YCbCr or BG_YCC).
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.)

The Independent JPEG Group's JPEG software
===============================================

README for release 9c of 14-Jan-2018
===============================================

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IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee
(previously known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP
=========================

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and grayscale images.

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. 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, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent (now expired), 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.

REFERENCES

We 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 PDF file containing a revised version of Wallace's article is available at http://www.iwj.org/files/Wallace.JPEG.pdf. 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...


Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.


IJG JPEG 9 introduces a reversible color transform for improved lossless
compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) : Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from http://www.itu.int/rec/T-REC-T.871. A PDF file of the older JFIF document is available at http://www.w3.org/Graphics/JPEG/jfif3.pdf.

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 http://www.iijg.org/files/. 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.

ARCHIVE LOCATIONS
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The "official" archive site for this software is www.iijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.iijg.org/files/jpegsrc.v9c.tar.gz, and in Windows-compatible "zip" archive format as http://www.iijg.org/files/jpegsrc9c.zip.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG.
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

ACKNOWLEDGMENTS
=================

Open Source Used In HyperFlex HX Data Platform 4.5(2d) 15193
Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.

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FILE FORMAT WARS
================

The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES). There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original
JPEG images.
We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.
Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification. Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code. The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties.
We have no sympathy for the release of misleading, incorrect and illegal distributions derived from obsolete code bases.
Don't use an obsolete code base!

According to the UCC (Uniform Commercial Code) law, IJG has the lawful and legal right to foreclose on certain standardization bodies and other institutions or corporations that knowingly perform substantial and systematic deceptive acts and practices, fraud, theft, and damaging of the value of the people of this planet without their knowing, willing and intentional consent.
The titles, ownership, and rights of these institutions and all their assets are now duly secured and held in trust for the free people of this planet. People of the planet, on every country, may have a financial interest in the assets of these former principals, agents, and beneficiaries of the foreclosed institutions and corporations.
IJG asserts what is: that each man, woman, and child has unalienable value and rights granted and deposited in them by the Creator and not any one of the people is subordinate to any artificial principality, corporate fiction or the special interest of another without their appropriate knowing, willing and intentional consent made by contract or accommodation agreement.
IJG expresses that which already was.
The people have already determined and demanded that public administration
entities, national governments, and their supporting judicial systems must be fully transparent, accountable, and liable.
IIG has secured the value for all concerned free people of the planet.

A partial list of foreclosed institutions and corporations ("Hall of Shame") is currently prepared and will be published later.

TO DO
=====

Version 9 is the second release of a new generation JPEG standard to overcome the limitations of the original JPEG specification, and is the first true source reference JPEG codec.
More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/README
No license file was found, but licenses were detected in source scan.

/*
 * jcparam.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 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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcparam.c
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; For conditions of distribution and use, see the accompanying README file.

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemdosa.asm
No license file was found, but licenses were detected in source scan.

/*
 * jpeglib.h
 *
* 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 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.
*/

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* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jpeglib.h
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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdpostct.c
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/*
* jpegint.h
* 
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file provides common declarations for the various JPEG modules.
* These declarations are considered internal to the JPEG library; most
* applications using the library shouldn't need to include this file.
*/
/*
 * jcdctmgr.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 forward-DCT management logic.
 * This code selects a particular DCT implementation to be used,
 * and it performs related housekeeping chores including coefficient
 * quantization.
 */

/*
 * ckconfig.c
 *
 * 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.
 */

/*
 * jdct.h
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This include file contains common declarations for the forward and
 * inverse DCT modules. These declarations are private to the DCT managers
 * (jcdctmgr.c, jddctmgr.c) and the individual DCT algorithms.
 * The individual DCT algorithms are kept in separate files to ease
 * machine-dependent tuning (e.g., assembly coding).
/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdct.h

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

/*
 * jcsample.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 downsampling routines.
 *
 * Downsampling input data is counted in "row groups". A row group
 * is defined to be max_v_samp_factor pixel rows of each component,
 * from which the downsampler produces v_samp_factor sample rows.
 * A single row group is processed in each call to the downsampler module.
 *
 * The downsampler is responsible for edge-expansion of its output data
 * to fill an integral number of DCT blocks horizontally. The source buffer
 * may be modified if it is helpful for this purpose (the source buffer is
 * allocated wide enough to correspond to the desired output width).
 * The caller (the prep controller) is responsible for vertical padding.
 *
 * The downsampler may request "context rows" by setting need_context_rows
 * during startup. In this case, the input arrays will contain at least
 * one row group's worth of pixels above and below the passed-in data;
 * the caller will create dummy rows at image top and bottom by replicating
 * the first or last real pixel row.
 *
 * An excellent reference for image resampling is
 *
 * The downsampling algorithm used here is a simple average of the source
 * pixels covered by the output pixel. The hi-falutin sampling literature
 * refers to this as a "box filter". In general the characteristics of a box
 * filter are not very good, but for the specific cases we normally use (1:1
 * and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
 * nearly so bad. If you intend to use other sampling ratios, you'd be well
 * advised to improve this code.
 *
 * A simple input-smoothing capability is provided. This is mainly intended
 * for cleaning up color-dithered GIF input files (if you find it inadequate,
 * we suggest using an external filtering program such as pnmconvol). When
 * enabled, each input pixel P is replaced by a weighted sum of itself and its
* eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcsample.c
No license file was found, but licenses were detected in source scan.

/**
 * rdrlc.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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdrle.c
No license file was found, but licenses were detected in source scan.

/**
 * jdatadst.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 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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdatadst.c
No license file was found, but licenses were detected in source scan.

/*
 * jversion.h
 *
 * Copyright (C) 1991-2018, 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 software version identification.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jversion.h
No license file was found, but licenses were detected in source scan.

/*
 * cjpeg.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 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):
*/
*jmemdos.c
*
* 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 file provides an MS-DOS-compatible implementation of the system-
* dependent portion of the JPEG memory manager. Temporary data can be
* stored in extended or expanded memory as well as in regular DOS files.
*
* If you use this file, you must be sure that NEED_FAR_POINTERS is defined
* if you compile in a small-data memory model; it should NOT be defined if
* you use a large-data memory model. This file is not recommended if you
* are using a flat-memory-space 386 environment such as DJGCC or Watcom C.
* Also, this code will NOT work if struct fields are aligned on greater than
* 2-byte boundaries.
*
* Based on code contributed by Ge' Weijers.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemdos.c
No license file was found, but licenses were detected in source scan.

/ *
*jtrans.c
*
* Copyright (C) 1995-1998, 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 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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jtrans.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: FILE LIST

Copyright (C) 1994-2017, 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.

Here is a road map to the files in the IJG JPEG distribution. The
distribution includes the JPEG library proper, plus two application
programs ("cjpeg" and "djpeg") which use the library to convert JPEG
files to and from some other popular image formats. A third application
"jpegtran" uses the library to do lossless conversion between different
variants of JPEG. There are also two stand-alone applications,
"rdjpgcom" and "wrjpgcom".

THE JPEG LIBRARY
================

Include files:

jpeglib.h JPEG library's exported data and function declarations.
jconfig.h Configuration declarations. Note: this file is not present
in the distribution; it is generated during installation.
jmorecfg.h Additional configuration declarations; need not be changed
for a standard installation.
jerrow.h Declares JPEG library's error and trace message codes.
jinclude.h Central include file used by all IJG .c files to reference
system include files.
jemint.h JPEG library's internal data structures.
jdct.h Private declarations for forward & reverse DCT subsystems.
jmemsys.h Private declarations for memory management subsystem.
jversion.h Version information.

Applications using the library should include jpeglib.h (which in turn
includes jconfig.h and jmorecfg.h). Optionally, jerror.h may be included
if the application needs to reference individual JPEG error codes. The
other include files are intended for internal use and would not normally
be included by an application program. (cjpeg/djpeg/etc do use jinclude.h,
since its function is to improve portability of the whole IJG distribution.
Most other applications will directly include the system include files they
want, and hence won't need jinclude.h.)

C source code files:

These files contain most of the functions intended to be called directly by
an application program:

jcapimin.c Application program interface: core routines for compression.
jcapistd.c Application program interface: standard compression.
jdapimin.c Application program interface: core routines for decompression.
jdapistd.c Application program interface: standard decompression.
jcomapi.c Application program interface routines common to compression and decompression.
jpparam.c Compression parameter setting helper routines.
jjtrans.c API and library routines for transcoding compression.
jjtrans.c API and library routines for transcoding decompression.

Compression side of the library:

jcinit.c Initialization: determines which other modules to use.
jcmaster.c Master control: setup and inter-pass sequencing logic.
jcmainct.c Main buffer controller (preprocessor => JPEG compressor).
jcpreptc.c Preprocessor buffer controller.
jccoefct.c Buffer controller for DCT coefficient buffer.
jccolor.c Color space conversion.
jcsample.c Downsampling.
jcdctmgr.c DCT manager (DCT implementation selection & control).
jfcdctint.c Forward DCT using slow-but-accurate integer method.
jfcdctfst.c Forward DCT using faster, less accurate integer method.
jfcdctflt.c Forward DCT using floating-point arithmetic.
jchuff.c Huffman entropy coding.
jcarith.c Arithmetic entropy coding.
jcmarker.c JPEG marker writing.
jdatadst.c Data destination managers for memory and stdio output.

Decompression side of the library:

jdmaster.c Master control: determines which other modules to use.
jdinpt.c Input controller: controls input processing modules.
jdmaint.c Main buffer controller (JPEG decompressor => postprocessor).
jdcoefct.c Buffer controller for DCT coefficient buffer.
jdpostct.c Postprocessor buffer controller.
jdmarker.c JPEG marker reading.
jdhuff.c Huffman entropy decoding.
jdarith.c Arithmetic entropy decoding.
jddctmgr.c IDCT manager (IDCT implementation selection & control).
jdcdctint.c Inverse DCT using slow-but-accurate integer method.
jdcdctfst.c Inverse DCT using faster, less accurate integer method.
jdcdctflt.c Inverse DCT using floating-point arithmetic.
jdsample.c Upsampling.
jdcolor.c Color space conversion.
jdmerge.c Merged upsampling/color conversion (faster, lower quality).
jqquant1.c One-pass color quantization using a fixed-spacing colormap.
jqquant2.c Two-pass color quantization using a custom-generated colormap. Also handles one-pass quantization to an externally given map.
jdatasrc.c Data source managers for memory and stdio input.
Support files for both compression and decompression:

jaricom.c: Tables for common use in arithmetic entropy encoding and decoding routines.
jerror.c: Standard error handling routines (application replaceable).
jmemmgr.c: System-independent (more or less) memory management code.
jutils.c: Miscellaneous utility routines.

jmemmgr.c relies on a system-dependent memory management module. The IJG distribution includes the following implementations of the system-dependent module:

jmemnobs.c: "No backing store": assumes adequate virtual memory exists.
jmemansi.c: Makes temporary files with ANSI-standard routine tmpfile().
jmemname.c: Makes temporary files with program-generated file names.
jmemdos.c: Custom implementation for MS-DOS (16-bit environment only): can use extended and expanded memory as well as temp files.
jmemmac.c: Custom implementation for Apple Macintosh.

Exactly one of the system-dependent modules should be configured into an installed JPEG library (see install.txt for hints about which one to use). On unusual systems you may find it worthwhile to make a special system-dependent memory manager.

Non-C source code files:

jmemdosa.asm: 80x86 assembly code support for jmemdos.c; used only in MS-DOS-specific configurations of the JPEG library.

CJPEG/DJPEG/JPEGTRAN
====================

Include files:

cdjpeg.h: Declarations shared by cjpeg/djpeg/jpegtran modules.
cderror.h: Additional error and trace message codes for cjpeg et al.
transupp.h: Declarations for jpegtran support routines in transupp.c.

C source code files:

cjpeg.c: Main program for cjpeg.
djpeg.c: Main program for djpeg.
jpegtran.c: Main program for jpegtran.
cdjpeg.c: Utility routines used by all three programs.
rdcolmap.c: Code to read a colormap file for djpeg's "-map" switch.
rdswitch.c: Code to process some of cjpeg's more complex switches.
Also used by jpegtran.

transupp.c: Support code for jpegtran: lossless image manipulations.

Image file reader modules for cjpeg:

rdbmp.c: BMP file input.
rdgif.c: GIF file input (now just a stub).
rdppm.c: PPM/PGM file input.
rdrle.c: Utah RLE file input.
rdtarga.c: Targa file input.

Image file writer modules for djpeg:

wrbmp.c: BMP file output.
wrgif.c: GIF file output (a mere shadow of its former self).
wrppm.c: PPM/PGM file output.
rwrle.c: Utah RLE file output.
wrtdtarga.c: Targa file output.

RDJPDCOM/WRJPDCOM

C source code files:

rdjpgcom.c: Stand-alone rdjpgcom application.
wrjpgcom.c: Stand-alone wrjpgcom application.

These programs do not depend on the IJG library. They do use
jconfig.h and jinclude.h, only to improve portability.

ADDITIONAL FILES

Documentation (see README for a guide to the documentation files):

README: Master documentation file.
*.txt: Other documentation files.
*.1: Documentation in Unix man page format.
change.log: Version-to-version change highlights.
example.c: Sample code for calling JPEG library.

Configuration/installation files and programs (see install.txt for more info):

configure: Unix shell script to perform automatic configuration.
configure.ac: Source file for use with Autoconf to generate configure.
ltmain.sh: Support scripts for configure (from GNU libtool).
config.guess
config.sub
depcomp
missing
ar-lib
compile
install-sh
Install shell script for those Unix systems lacking one.
Makefile.in
Makefile input for configure.
Makefile.am
Source file for use with Automake to generate Makefile.in.
ckconfig.c
Program to generate jconfig.h on non-Unix systems.
jconfig.txt
Template for making jconfig.h by hand.
mak*.*
Sample makefiles for particular systems.
jconfig.*
Sample jconfig.h for particular systems.
libjpeg.map
Script to generate shared library with versioned symbols.
libjpeg.pc.in
libjpeg.pc pkg-config file input for configure.
aclocal.m4
Macro definitions for use with Autoconf.

Test files (see install.txt for test procedure):

test*.*
Source and comparison files for confidence test.
These are binary image files, NOT text files.

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/filelist.txt
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2013, 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 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 array 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. The library does not support the hierarchical or lossless processes defined in the standard.

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 datstreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datstreams 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
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 (block_size-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 jdataset.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:

\[
\text{input data} \rightarrow \text{processing step A} \rightarrow \text{buffer} \rightarrow \text{processing step B} \rightarrow \text{output data}
\]

\[
\begin{array}{c}
| \\
\text{-------------- controller --------------}
\end{array}
\]

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

The objects shown above are:

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

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

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

* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each component before downsampling, and Vk sample rows afterwards (remember Vk 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 block_size 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 block_size 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 need fewer coefficients and emit fewer samples per DCT block, not the
full 8x8. Works on one DCT block at a time.

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

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

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

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

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

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

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

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

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

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

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

*** Decompression input and output separation ***

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

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

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

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

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

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

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

*** Data formats ***

Arrays of pixel sample values use the following data structure:

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

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

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

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

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

In general, a specific sample value is accessed by code such as
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 coefficient blocks, corresponding to block_size 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: JSAMPLEARRAY 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 JSAMPLEARRAY 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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/structure.txt
No license file was found, but licenses were detected in source scan.

/*
 * jcmainct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for compression.
 * The main buffer lies between the pre-processor and the JPEG
 * compressor proper; it holds downsampled data in the JPEG colorspace.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcmainct.c
No license file was found, but licenses were detected in source scan.

/*
 * jidctint.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modification developed 2002-2016 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a slow-but-accurate integer implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on an algorithm described in

The primary algorithm described there uses 11 multiplies and 29 adds.

We use their alternate method with 12 multiplies and 32 adds.

The advantage of this method is that no data path contains more than one multiplication; this allows a very simple and accurate implementation in scaled fixed-point arithmetic, with a minimal number of shifts.

We also provide IDCT routines with various output sample block sizes for direct resolution reduction or enlargement and for direct resolving the common 2x1 and 1x2 subsampling cases without additional resampling: NxN (N=1...16), 2NxN, and Nx2N (N=1...8) 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.

This file contains Huffman entropy encoding routines.

Both sequential and progressive modes are supported in this single module.

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.
*
* We do not support output suspension for the progressive JPEG mode, since
* the library currently does not allow multiple-scan files to be written
* with output suspension.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jchuff.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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemsys.h
No license file was found, but licenses were detected in source scan.

/*
* jdsample.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 upsampling routines.
*
Upsampling input data is counted in "row groups". A row group is defined to be \((v_{samp\_factor} \times DCT_v_{scaled\_size} / \min DCT_v_{scaled\_size})\) 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


*/

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).
 */

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.
 */

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

/*
 * rdswitch.c
 */

No license file was found, but licenses were detected in source scan.
* 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 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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdswitch.c
No license file was found, but licenses were detected in source scan.

/*
* jdmaster.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 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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdmaster.c
No license file was found, but licenses were detected in source scan.

/*
* jdinput.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2002-2013 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 input control logic for the JPEG decompressor.
* These routines are concerned with controlling the decompressor's input
* processing (marker reading and coefficient decoding). The actual input
* reading is done in jdmarker.c, jdhuff.c, and jdarith.c.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdinput.c
No license file was found, but licenses were detected in source scan.

*/
* jmemname.c
 *
* 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 file provides a generic implementation of the system-dependent
* portion of the JPEG memory manager. This implementation assumes that
* you must explicitly construct a name for each temp file.
* Also, the problem of determining the amount of memory available
* is shoved onto the user.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemname.c
No license file was found, but licenses were detected in source scan.

*/
* jdcoefct.c
 *
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2002-2011 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 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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdcoefct.c
No license file was found, but licenses were detected in source scan.

*/
* rdbmp.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 read input images in Microsoft "BMP"
* format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
* Currently, only 8-, 24-, and 32-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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdbmp.c
No license file was found, but licenses were detected in source scan.

/*
 * jdcolor.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 output colorspace conversion routines.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdcolor.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemmac.c
 *
 * 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.
 * 
 * jmemmac.c provides an Apple Macintosh implementation of the system-
* dependent portion of the JPEG memory manager.
* 
* If you use jmemmac.c, then you must define USE_MAC_MEMMGR in the
* JPEG_INTERNALS part of jconfig.h.
* 
* jmemmac.c uses the Macintosh toolbox routines NewPtr and DisposePtr
* instead of malloc and free. It accurately determines the amount of
* memory available by using CompactMem. Notice that if left to its
* own devices, this code can chew up all available space in the
* application's zone, with the exception of the rather small "slop"
* factor computed in jpeg_mem_available(). The application can ensure
* that more space is left over by reducing max_memory_to_use.
* 
* Large images are swapped to disk using temporary files and System 7.0+'s
* temporary folder functionality.
* 
* Note that jmemmac.c depends on two features of MacOS that were first
* introduced in System 7: FindFolder and the FSSpec-based calls.
* If your application uses jmemmac.c and is run under System 6 or earlier,
* and the jpeg library decides it needs a temporary file, it will abort,
* printing error messages about requiring System 7. (If no temporary files
* are created, it will run fine.)
* 
* If you want to use jmemmac.c in an application that might be used with
* System 6 or earlier, then you should remove dependencies on FindFolder
* and the FSSpec calls. You will need to replace FindFolder with some
* other mechanism for finding a place to put temporary files, and you
* should replace the FSSpec calls with their HFS equivalents:
* 
* FSpDelete -> HDelete
* FSpGetFInfo -> HGetFInfo
* FSpCreate -> HCreate
* FSpOpenDF -> HOpen *** Note: not HOpenDF ***
* FSMakeFSSpec -> (fill in spec by hand.)
* 
* (Use HOpen instead of HOpenDF. HOpen is just a glue-interface to PBHOpen,
* which is on all HFS macs. HOpenDF is a System 7 addition which avoids the
* ages-old problem of names starting with a period.)
* 
* Contributed by Sam Bushell (jsam@iagu.on.net) and
* Dan Gildor (gyld@in-touch.com).
* /

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemmac.c

No license file was found, but licenses were detected in source scan.
*/
* wrppm.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 PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPPLUS 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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/wrppm.c

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

/*
 * jcarith.c
*
* Developed 1997-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains portable arithmetic entropy encoding routines for JPEG
* Both sequential and progressive modes are supported in this single module.
* Suspension is not currently supported in this module.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcarith.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.

This file contains routines to write output images in GIF format.

***********************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* this code has been modified to output "uncompressed GIF" files.       *
***********************************************************************
* There is no trace of the LZW algorithm in this file.                    *
**************************************************************************
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*/

/*
This code is loosely based on ppmtogif from the PBMPLUS distribution
of Feb. 1991. That file contains the following copyright notice:
* Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.
* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
* Copyright (C) 1989 by Jef Poskanzer.
* Permission to use, copy, modify, and distribute this software and its
* documentation for any purpose and without fee is hereby granted, provided
* that the above copyright notice appear in all copies and that both that
* copyright notice and this permission notice appear in supporting
* documentation. This software is provided "as is" without express or
* implied warranty.
*
* We are also required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/wrgif.c
No license file was found, but licenses were detected in source scan.

/*
* rdtarga.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 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.
*
* 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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdtarga.c
No license file was found, but licenses were detected in source scan.

/*
 * Jdhuff.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2006-2016 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 Huffman entropy decoding routines.
 * Both sequential and progressive modes are supported in this single module.
 *
 * 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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdhuff.c
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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jfdctfst.c
No license file was found, but licenses were detected in source scan.

/*
 * jquant2.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2011 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 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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jquant2.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemmgr.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2011-2012 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 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...)

INSTALLATION INSTRUCTIONS for the Independent JPEG Group's JPEG software

Copyright (C) 1991-2017, 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 explains how to configure and install the IJG software. We have tried to make this software extremely portable and flexible, so that it can be adapted to almost any environment. The downside of this decision is that the installation process is complicated. We have provided shortcuts to simplify the task on common systems. But in any case, you will need at least a little familiarity with C programming and program build procedures for your system.

If you are only using this software as part of a larger program, the larger program's installation procedure may take care of configuring the IJG code. For example, Ghostscript's installation script will configure the IJG code. You don't need to read this file if you just want to compile Ghostscript.

If you are on a Unix machine, you may not need to read this file at all.
Try doing
./configure
make
make test
If that doesn't complain, do 
make install
(better do "make -n install" first to see if the makefile will put the files 
where you want them). Read further if you run into snags or want to customize 
the code for your system.

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BEFORE YOU START
 =================

Before installing the software you must unpack the distributed source code.
Since you are reading this file, you have probably already succeeded in this 
task. However, there is a potential for error if you needed to convert the 
files to the local standard text file format (for example, if you are on 
MS-DOS you may have converted LF end-of-line to CR/LF). You must apply 
such conversion to all the files EXCEPT those whose names begin with "test".
The test files contain binary data; if you change them in any way then the 
self-test will give bad results.

Please check the last section of this file to see if there are hints for the 
specific machine or compiler you are using.

CONFIGURING THE SOFTWARE
=========================

To configure the IJG code for your system, you need to create two files:
* jconfig.h: contains values for system-dependent #define symbols.
* Makefile: controls the compilation process.
(On a non-Unix machine, you may create "project files" or some other 
substitute for a Makefile. jconfig.h is needed in any environment.)
We provide three different ways to generate these files:
* On a Unix system, you can just run the "configure" script.
* We provide sample jconfig files and makefiles for popular machines;
  if your machine matches one of the samples, just copy the right sample
  files to jconfig.h and Makefile.
* If all else fails, read the instructions below and make your own files.

Configuring the software using the automatic "configure" script
---------------------------------------------------------------

If you are on a Unix machine, you can just type

`./configure`

and let the configure script construct appropriate configuration files.  
If you're using "csh" on an old version of System V, you might need to type

`sh configure`

instead to prevent csh from trying to execute configure itself.  
Expect configure to run for a few minutes, particularly on slower machines;

it works by compiling a series of test programs.

Configure was created with GNU Autoconf and it follows the usual conventions
for GNU configure scripts.  It makes a few assumptions that you may want to
override.  You can do this by providing optional switches to configure:

* Configure will build both static and shared libraries, if possible.
If you want to build libjpeg only as a static library, say

`./configure --disable-shared`

If you want to build libjpeg only as a shared library, say

`./configure --disable-static`

Configure uses GNU libtool to take care of system-dependent shared library
building methods.

* Configure will use gcc (GNU C compiler) if it's available, otherwise cc.
To force a particular compiler to be selected, use the CC option, for example

`./configure CC='cc'`

The same method can be used to include any unusual compiler switches.
For example, on HP-UX you probably want to say

`./configure CC='cc -Aa'`

to get HP's compiler to run in ANSI mode.

* The default CFLAGS setting is "-g" for non-gcc compilers, 
"-g -O2" for gcc.
You can override this by saying, for example,

`./configure CFLAGS='-O2'`

if you want to compile without debugging support.

* Configure will set up the makefile so that "make install" will install files
into /usr/local/bin, /usr/local/man, etc.  You can specify an installation
prefix other than /usr/local" by giving configure the option "--prefix=PATH".
* If you don't have a lot of swap space, you may need to enable the IJG software's internal virtual memory mechanism. To do this, give the option "--enable-maxmem=N" where N is the default maxmemory limit in megabytes. This is discussed in more detail under "Selecting a memory manager", below. You probably don't need to worry about this on reasonably-sized Unix machines, unless you plan to process very large images.

Configure has some other features that are useful if you are cross-compiling or working in a network of multiple machine types; but if you need those features, you probably already know how to use them.

Configuring the software using one of the supplied jconfig and makefile files

If you have one of these systems, you can just use the provided configuration files:

Makefile jconfig file System and/or compiler

makefile.manx jconfig.manx Amiga, Manx Aztec C
makefile.sas jconfig.sas Amiga, SAS C
makeproj.mac jconfig.mac Apple Macintosh, Metrowerks CodeWarrior
mak*jpeg.st jconfig.st Atari ST/STE/TT, Pure C or Turbo C
makefile.bcc jconfig.bcc MS-DOS or OS/2, Borland C
makefile.dj jconfig.dj MS-DOS, DJGPP (Delorie's port of GNU C)
makefile.mc6 jconfig.mc6 MS-DOS, Microsoft C (16-bit only)
makefile.wat jconfig.wat MS-DOS, OS/2, or Windows NT, Watcom C
makefile.vc jconfig.vc Windows, MS Visual C++
makefile.vc6 jconfig.vc Windows, MS Visual C++ 6 Developer Studio
make* vc6
makefile.vs jconfig.vs Windows, Visual Studio 2017 (v15)
make* vc15
makefile.b32 jconfig.vc Windows, Borland C++ 32-bit (bcc32)
makefile.mms jconfig.vms Digital VMS, with MMS software
makefile.vms jconfig.vms Digital VMS, without MMS software

Copy the proper jconfig file to jconfig.h and the makefile to Makefile (or whatever your system uses as the standard makefile name). For more info see the appropriate system-specific hints section near the end of this file.

Configuring the software by hand

First, generate a jconfig.h file. If you are moderately familiar with C, the comments in jconfig.txt should be enough information to do this; just
copy jconfig.txt to jconfig.h and edit it appropriately. Otherwise, you may prefer to use the ckconfig.c program. You will need to compile and execute ckconfig.c by hand --- we hope you know at least enough to do that. ckconfig.c may not compile the first try (in fact, the whole idea is for it to fail if anything is going to). If you get compile errors, fix them by editing ckconfig.c according to the directions given in ckconfig.c. Once you get it to run, it will write a suitable jconfig.h file, and will also print out some advice about which makefile to use.

You may also want to look at the canned jconfig files, if there is one for a system similar to yours.

Second, select a makefile and copy it to Makefile (or whatever your system uses as the standard makefile name). The most generic makefiles we provide are

makefile.ansi: if your C compiler supports function prototypes
makefile.unix: if not.

(You have function prototypes if ckconfig.c put "#define HAVE_PROTOTYPES" in jconfig.h.) You may want to start from one of the other makefiles if there is one for a system similar to yours.

Look over the selected Makefile and adjust options as needed. In particular you may want to change the CC and CFLAGS definitions. For instance, if you are using GCC, set CC=gcc. If you had to use any compiler switches to get ckconfig.c to work, make sure the same switches are in CFLAGS.

If you are on a system that doesn't use makefiles, you'll need to set up project files (or whatever you do use) to compile all the source files and link them into executable files cjpegs, djpegs, jpegtran, rdjpgcom, and wrjpgcom. See the file lists in any of the makefiles to find out which files go into each program. Note that the provided makefiles all make a "library" file libjpeg first, but you don't have to do that if you don't want to; the file lists identify which source files are actually needed for compression, decompression, or both. As a last resort, you can make a batch script that just compiles everything and links it all together; makefile.vms is an example of this (it's for VMS systems that have no make-like utility).

Here are comments about some specific configuration decisions you'll need to make:

Command line style
------------------

These programs can use a Unix-like command line style which supports redirection and piping, like this:
cjpeg inputfile >outputfile
cjpeg <inputfile >outputfile
source program | cjpeg >outputfile
The simpler "two file" command line style is just
cjpeg inputfile outputfile
You may prefer the two-file style, particularly if you don't have pipes.

You MUST use two-file style on any system that doesn't cope well with binary
data fed through stdin/stdout; this is true for some MS-DOS compilers, for
example. If you're not on a Unix system, it's safest to assume you need
two-file style. (But if your compiler provides either the Posix-standard
fdopen() library routine or a Microsoft-compatible setmode() routine, you
can safely use the Unix command line style, by defining USE_FDOPEN or
USE_SETMODE respectively.)

To use the two-file style, make jconfig.h say "#define TWO_FILE_COMMANDLINE".

Selecting a memory manager
--------------------------

The IJG code is capable of working on images that are too big to fit in main
memory; data is swapped out to temporary files as necessary. However, the
code to do this is rather system-dependent. We provide five different
memory managers:

* jmemansi.c This version uses the ANSI-standard library routine tmpfile(),
which not all non-ANSI systems have. On some systems
tmpfile() may put the temporary file in a non-optimal
location; if you don't like what it does, use jmemname.c.

* jmemname.c This version creates named temporary files. For anything
except a Unix machine, you'll need to configure the
select_file_name() routine appropriately; see the comments
near the head of jmemname.c. If you use this version, define
NEED_SIGNAL_CATCHER in jconfig.h to make sure the temp files
are removed if the program is aborted.

* jmemnobs.c (That stands for No Backing Store :-). This will compile on
almost any system, but it assumes you have enough main memory
or virtual memory to hold the biggest images you work with.

* jmemdos.c This should be used with most 16-bit MS-DOS compilers.
See the system-specific notes about MS-DOS for more info.
IMPORTANT: if you use this, define USE_MSDOS_MEMMGR in
jconfig.h, and include the assembly file jmemdosa.asm in the
programs. The supplied makefiles and jconfig files for
16-bit MS-DOS compilers already do both.

* jmemmac.c Custom version for Apple Macintosh; see the system-specific
notes for Macintosh for more info.
To use a particular memory manager, change the SYSDEPMEM variable in your makefile to equal the corresponding object file name (for example, jmemansi.o or jmemansi.obj for jmemansi.c).

If you have plenty of (real or virtual) main memory, just use jmemnobs.c. "Plenty" means about ten bytes for every pixel in the largest images you plan to process, so a lot of systems don't meet this criterion. If yours doesn't, try jmemansi.c first. If that doesn't compile, you'll have to use jmemname.c; be sure to adjust select_file_name() for local conditions. You may also need to change unlink() to remove() in close_backing_store().

Except with jmemnobs.c or jmemmac.c, you need to adjust the DEFAULT_MAX_MEM setting to a reasonable value for your system (either by adding a #define for DEFAULT_MAX_MEM to jconfig.h, or by adding a -D switch to the Makefile). This value limits the amount of data space the program will attempt to allocate. Code and static data space isn't counted, so the actual memory needs for cjpeg or djpege are typically 100 to 150Kb more than the max-memory setting. Larger max-memory settings reduce the amount of I/O needed to process a large image, but too large a value can result in "insufficient memory" failures. On most Unix machines (and other systems with virtual memory), just set DEFAULT_MAX_MEM to several million and forget it. At the other end of the spectrum, for MS-DOS machines you probably can't go much above 300K to 400K. (On MS-DOS the value refers to conventional memory only. Extended/expanded memory is handled separately by jmemdos.c.)

BUILDING THE SOFTWARE
=======================

Now you should be able to compile the software. Just say "make" (or whatever's necessary to start the compilation). Have a cup of coffee.

Here are some things that could go wrong:

If your compiler complains about undefined structures, you should be able to shut it up by putting "#define INCOMPLETE_TYPES_BROKEN" in jconfig.h.

If you have trouble with missing system include files or inclusion of the wrong ones, read jinclude.h. This shouldn't happen if you used configure or ckeconfig.c to set up jconfig.h.

There are a fair number of routines that do not use all of their parameters; some compilers will issue warnings about this, which you can ignore. There are also a few configuration checks that may give "unreachable code" warnings. Any other warning deserves investigation.

If you don't have a getenv() library routine, define NO_GETENV.
Also see the system-specific hints, below.

TESTING THE SOFTWARE
=====================

As a quick test of functionality we've included a small sample image in several forms:

testorig.jpg Starting point for the djpeg tests.
testimg.ppm  The output of djpeg testorig.jpg
testimg.bmp  The output of djpeg -bmp -colors 256 testorig.jpg
testimg.jpg The output of cjpeg testimg.ppm
testprog.jpg Progressive-mode equivalent of testorig.jpg.
testimgp.jpg The output of cjpeg -progressive -optimize testimg.ppm
(The first- and second-generation .jpg files aren't identical since the default compression parameters are lossy.) If you can generate duplicates of the testimg* files then you probably have working programs.

With most of the makefiles, "make test" will perform the necessary comparisons.

If you're using a makefile that doesn't provide the test option, run djpeg and cjpeg by hand and compare the output files to testimg* with whatever binary file comparison tool you have. The files should be bit-for-bit identical.

If the programs complain "MAX_ALLOC_CHUNK is wrong, please fix", then you need to reduce MAX_ALLOC_CHUNK to a value that fits in type size_t. Try adding "#define MAX_ALLOC_CHUNK 65520L" to jconfig.h. A less likely configuration error is "ALIGN_TYPE is wrong, please fix": defining ALIGN_TYPE as long should take care of that one.

If the cjpeg test run fails with "Missing Huffman code table entry", it's a good bet that you needed to define RIGHT_SHIFT_IS_UNSIGNED. Go back to the configuration step and run ckconfig.c. (This is a good plan for any other test failure, too.)

If you are using Unix (one-file) command line style on a non-Unix system, it's a good idea to check that binary I/O through stdin/stdout actually works. You should get the same results from "djpeg <testorig.jpg >out.ppm" as from "djpeg -outfile out.ppm testorig.jpg". Note that the makefiles all use the latter style and therefore do not exercise stdin/stdout! If this check fails, try recompiling with USE_SETMODE or USE_FDOPEN defined. If it still doesn't work, better use two-file style.

If you chose a memory manager other than jmemnobs.c, you should test that temporary-file usage works. Try "djpeg -bmp -colors 256 -max 0 testorig.jpg" and make sure its output matches testimg.bmp. If you have any really large
images handy, try compressing them with -optimize and/or decompressing with 
-colors 256 to make sure your DEFAULT_MAX_MEM setting is not too large.

NOTE: this is far from an exhaustive test of the JPEG software; some modules, 
such as 1-pass color quantization, are not exercised at all. It's just a 
quick test to give you some confidence that you haven't missed something 
major.

INSTALLING THE SOFTWARE
=========================

Once you're done with the above steps, you can install the software by 
copying the executable files (cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom) 
to wherever you normally install programs. On Unix systems, you'll also want 
to put the man pages (cjpeg.1, djpeg.1, jpegtran.1, rdjpgcom.1, wrjpgcom.1) 
in the man-page directory. The pre-fab makefiles don't support this step 
since there's such a wide variety of installation procedures on different 
systems.

If you generated a Makefile with the "configure" script, you can just say 
make install 
to install the programs and their man pages into the standard places. 
(You'll probably need to be root to do this.) We recommend first saying 
make -n install 
to see where configure thought the files should go. You may need to edit 
the Makefile, particularly if your system's conventions for man page 
filenames don't match what configure expects.

If you want to install the IJG library itself, for use in compiling other 
programs besides ours, then you need to put the four include files 
jpeglib.h jerror.h jconfig.h jmorecfg.h 
into your include-file directory, and put the library file libjpeg.a 
(extension may vary depending on system) wherever library files go. 
If you generated a Makefile with "configure", it will do what it thinks 
is the right thing if you say 
make install-lib

OPTIONAL STUFF
==============

Progress monitor:

If you like, you can #define PROGRESS_REPORT (in jconfig.h) to enable display 
of percent-done progress reports. The routine provided in cdjpege.c merely 
prints percentages to stderr, but you can customize it to do something 
fancier.
Utah RLE file format support:

We distribute the software with support for RLE image files (Utah Raster Toolkit format) disabled, because the RLE support won't compile without the Utah library. If you have URT version 3.1 or later, you can enable RLE support as follows:

1. #define RLE_SUPPORTED in jconfig.h.
2. Add a -I option to CFLAGS in the Makefile for the directory containing the URT .h files (typically the "include" subdirectory of the URT distribution).
3. Add -L... -lrle to LDLIBS in the Makefile, where ... specifies the directory containing the URT "librle.a" file (typically the "lib" subdirectory of the URT distribution).

Support for 9-bit to 12-bit deep pixel data:

The IJG code currently allows 8, 9, 10, 11, or 12 bits sample data precision. (For color, this means 8 to 12 bits per channel, of course.) If you need to work with deeper than 8-bit data, you can compile the IJG code for 9-bit to 12-bit operation.

To do so:

1. In jmorecfg.h, define BITS_IN_JSAMPLE as 9, 10, 11, or 12 rather than 8.
2. In jconfig.h, undefine BMP_SUPPORTED, RLE_SUPPORTED, and TARGA_SUPPORTED, because the code for those formats doesn't handle deeper than 8-bit data and won't even compile. (The PPM code does work, as explained below. The GIF code works too; it scales 8-bit GIF data to and from 12-bit depth automatically.)
3. Compile. Don't expect "make test" to pass, since the supplied test files are for 8-bit data.

Currently, 9-bit to 12-bit support does not work on 16-bit-int machines.

Run-time selection and conversion of data precision are currently not supported and may be added later.

Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

The PPM reader (rdppm.c) can read deeper than 8-bit data from either text-format or binary-format PPM and PGM files. Binary-format PPM/PGM files which have a maxval greater than 255 are assumed to use 2 bytes per sample, MSB first (big-endian order). As of early 1995, 2-byte binary format is not officially supported by the PBMPLUS library, but it is expected that a future release of PBMPLUS will support it. Note that the PPM reader will read files of any maxval regardless of the BITS_IN_JSAMPLE setting; incoming data is automatically rescaled to maxval=MAXJSAMPLE as appropriate for the cjpeg bit depth.
The PPM writer (wrppm.c) will normally write 2-byte binary PPM or PGM format, maxval=MAXJSAMPLE, when compiled with BITS_IN_JSAMPLE>8. Since this format is not yet widely supported, you can disable it by compiling wrppm.c with PPM_NORAWWORD defined; then the data is scaled down to 8 bits to make a standard 1-byte/sample PPM or PGM file. (Yes, this means still another copy of djpeg to keep around. But hopefully you won't need it for very long. Poskanzer's supposed to get that new PBMPLUS release out Real Soon Now.)

Of course, if you are working with 9-bit to 12-bit data, you probably have it stored in some other, nonstandard format. In that case you'll probably want to write your own I/O modules to read and write your format.

Note:
The standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables.

Removing code:

If you need to make a smaller version of the JPEG software, some optional functions can be removed at compile time. See the xxx_SUPPORTED #defines in jconfig.h and jmorecfg.h. If at all possible, we recommend that you leave in decoder support for all valid JPEG files, to ensure that you can read anyone's output. Taking out support for image file formats that you don't use is the most painless way to make the programs smaller. Another possibility is to remove some of the DCT methods: in particular, the "IFAST" method may not be enough faster than the others to be worth keeping on your machine. (If you do remove ISLOW or IFAST, be sure to redefine JDCT_DEFAULT or JDCT_FASTEST to a supported method, by adding a #define in jconfig.h.)

OPTIMIZATION
============

Unless you own a Cray, you'll probably be interested in making the JPEG software go as fast as possible. This section covers some machine-dependent optimizations you may want to try. We suggest that before trying any of this, you first get the basic installation to pass the self-test step. Repeat the self-test after any optimization to make sure that you haven't broken anything.

The integer DCT routines perform a lot of multiplications. These multiplications must yield 32-bit results, but none of their input values are more than 16 bits wide. On many machines, notably the 680x0 and 80x86 CPUs, a 16x16=>32 bit multiply instruction is faster than a full 32x32=>32
bit multiply. Unfortunately there is no portable way to specify such a multiplication in C, but some compilers can generate one when you use the right combination of casts. See the MULTIPLYxxx macro definitions in jdct.h. If your compiler makes "int" be 32 bits and "short" be 16 bits, defining SHORTxSHORT_32 is fairly likely to work. When experimenting with alternate definitions, be sure to test not only whether the code still works (use the self-test), but also whether it is actually faster --- on some compilers, alternate definitions may compute the right answer, yet be slower than the default. Timing cjpeg on a large PGM (grayscale) input file is the best way to check this, as the DCT will be the largest fraction of the runtime in that mode. (Note: some of the distributed compiler-specific jconfig files already contain #define switches to select appropriate MULTIPLYxxx definitions.)

If your machine has sufficiently fast floating point hardware, you may find that the float DCT method is faster than the integer DCT methods, even after tweaking the integer multiply macros. In that case you may want to make the float DCT be the default method. (The only objection to this is that float DCT results may vary slightly across machines.) To do that, add "#define JDCT_DEFAULT JDCT_FLOAT" to jconfig.h. Even if you don't change the default, you should redefine JDCT_FASTEST, which is the method selected by djpeg's -fast switch. Don't forget to update the documentation files (usage.txt and/or cjpeg.1, djpeg.1) to agree with what you've done.

If access to "short" arrays is slow on your machine, it may be a win to define type JCOEF as int rather than short. This will cost a good deal of memory though, particularly in some multi-pass modes, so don't do it unless you have memory to burn and short is REALLY slow.

If your compiler can compile function calls in-line, make sure the INLINE macro in jmorecfg.h is defined as the keyword that marks a function inline-able. Some compilers have a switch that tells the compiler to inline any function it thinks is profitable (e.g., -finline-functions for gcc). Enabling such a switch is likely to make the compiled code bigger but faster.

In general, it's worth trying the maximum optimization level of your compiler, and experimenting with any optional optimizations such as loop unrolling. (Unfortunately, far too many compilers have optimizer bugs ... be prepared to back off if the code fails self-test.) If you do any experimentation along these lines, please report the optimal settings to jpeg-info@jpegclub.org so we can mention them in future releases. Be sure to specify your machine and compiler version.

HINTS FOR SPECIFIC SYSTEMS
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We welcome reports on changes needed for systems not mentioned here. Submit
'em to jpeg-info@jpegclub.org. Also, if configure or ckconfig.c is wrong about how to configure the JPEG software for your system, please let us know.

Acorn RISC OS:

(Thanks to Simon Middleton for these hints on compiling with Desktop C.)
After renaming the files according to Acorn conventions, take a copy of makefile.ansi, change all occurrences of 'libjpeg.a' to 'libjpeg.o' and change these definitions as indicated:

CFLAGS= -throwback -IC: -Wn
LDLIBS=C:o.Stubs
SYSDEPMEM=jmemansi.o
LN=Link
AR=LibFile -c -o

Also add a new line '.c.o:; $(cc) $< $(cflags) -c -o $@'. Remove the lines '$(RM) libjpeg.o' and '$(AR2) libjpeg.o' and the 'jconfig.h' dependency section.

Copy jconfig.txt to jconfig.h. Edit jconfig.h to define TWO_FILE_COMMANDLINE and CHAR_IS_UNSIGNED.

Run the makefile using !AMU not !Make. If you want to use the 'clean' and 'test' makefile entries then you will have to fiddle with the syntax a bit and rename the test files.

Amiga:

SAS C 6.50 reportedly is too buggy to compile the IJG code properly. A patch to update to 6.51 is available from SAS or AmiNet FTP sites.

The supplied config files are set up to use jmemname.c as the memory manager, with temporary files being created on the device named by "JPGTMP:".

Atari ST/STE/TT:

Copy the project files makcjpeg.st, makdjpeg.st, maktjpeg.st, and makljpeg.st to cjpeg.prj, djpeg.prj, jpegtran.prj, and libjpeg.prj respectively. The project files should work as-is with Pure C. For Turbo C, change library filenames "pc..." to "tc..." in each project file. Note that libjpeg.prj selects jmemansi.c as the recommended memory manager. You'll probably want to adjust the DEFAULT_MAX_MEM setting --- you want it to be a couple hundred K less than your normal free memory. Put "#define DEFAULT_MAX_MEM nnnn" into
To use the 68881/68882 coprocessor for the floating point DCT, add the compiler option "-8" to the project files and replace pcfltlib.lib with pc881lib.lib in cjpeg.prj and djpeg.prj. Or if you don't have a coprocessor, you may prefer to remove the float DCT code by undefining DCT_FLOAT_SUPPORTED in jmorecfg.h (since without a coprocessor, the float code will be too slow to be useful). In that case, you can delete pcfltlib.lib from the project files.

Note that you must make libjpeg.lib before making cjpeg.ttp, djpeg.ttp, or jpegtran.ttp. You'll have to perform the self-test by hand.

We haven't bothered to include project files for rdjpgcom and wrjpgcom. Those source files should just be compiled by themselves; they don't depend on the JPEG library. You can use the default.prj project file of the Pure C distribution to make the programs.

There is a bug in some older versions of the Turbo C library which causes the space used by temporary files created with "tmpfile()" not to be freed after an abnormal program exit. If you check your disk afterwards, you will find cluster chains that are allocated but not used by a file. This should not happen in cjpeg/djpeg/jpegtran, since we enable a signal catcher to explicitly close temp files before exiting. But if you use the JPEG library with your own code, be sure to supply a signal catcher, or else use a different system-dependent memory manager.

Cray:

Should you be so fortunate as to be running JPEG on a Cray YMP, there is a compiler bug in old versions of Cray's Standard C (prior to 3.1). If you still have an old compiler, you'll need to insert a line reading "#pragma nowector" just before the loop

```c
for (i = 1; i <= (int) htbl->bits[l]; i++)
    huffsize[p++] = (char) l;
```

in fix_huff_tbl (in V5beta1, line 204 of jchuff.c and line 176 of jdhuff.c). [This bug may or may not still occur with the current IJG code, but it's probably a dead issue anyway...]

HP-UX:

If you have HP-UX 7.05 or later with the "software development" C compiler, you should run the compiler in ANSI mode. If using the configure script, say

```
./configure CC='cc -Aa'
```

(or -Ae if you prefer). If configuring by hand, use makefile.ansi and add
"-Aa" to the CFLAGS line in the makefile.

If you have a pre-7.05 system, or if you are using the non-ANSI C compiler delivered with a minimum HP-UX system, then you must use makefile.unix (and do NOT add -Aa); or just run configure without the CC option.

On HP 9000 series 800 machines, the HP C compiler is buggy in revisions prior to A.08.07. If you get complaints about "not a typedef name", you'll have to use makefile.unix, or run configure without the CC option.

Macintosh, generic comments:

The supplied user-interface files (cjpeg.c, djpeg.c, etc) are set up to provide a Unix-style command line interface. You can use this interface on the Mac by means of the ccommand() library routine provided by Metrowerks CodeWarrior or Think C. This is only appropriate for testing the library, however; to make a user-friendly equivalent of cjpeg/djpeg you'd really want to develop a Mac-style user interface. There isn't a complete example available at the moment, but there are some helpful starting points:
1. Sam Bushell's free "To JPEG" applet provides drag-and-drop conversion to JPEG under System 7 and later. This only illustrates how to use the compression half of the library, but it does a very nice job of that part.
2. Jim Brunner prepared a Mac-style user interface for both compression and decompression. Unfortunately, it hasn't been updated since IJG v4, and the library's API has changed considerably since then. Still it may be of some help, particularly as a guide to compiling the IJG code under Think C. Jim's code is available from the Info-Mac archives, at sumex-aim.stanford.edu or mirrors thereof; see file /info-mac/dev/src/jpeg-convert-c.hqx.

jmemmac.c is the recommended memory manager back end for Macintosh. It uses NewPtr/DisposePtr instead of malloc/free, and has a Mac-specific implementation of jpeg_mem_available(). It also creates temporary files that follow Mac conventions. (That part of the code relies on System-7-or-later OS functions. See the comments in jmemmac.c if you need to run it on System 6.) NOTE that USE_MAC_MEMMGR must be defined in jconfig.h to use jmemmac.c.

You can also use jmemnobs.c, if you don't care about handling images larger than available memory. If you use any memory manager back end other than jmemmac.c, we recommend replacing "malloc" and "free" by "NewPtr" and "DisposePtr", because Mac C libraries often have peculiar implementations of malloc/free. (For instance, free() may not return the freed space to the Mac Memory Manager. This is undesirable for the IJG code because jmemmgr.c already clumps space requests.)

Macintosh, Metrowerks CodeWarrior:
The Unix-command-line-style interface can be used by defining USE_CCOMMAND. You'll also need to define TWO_FILE_COMMANDLINE to avoid stdin/stdout. This means that when using the cjpeg/djpeg programs, you'll have to type the input and output file names in the "Arguments" text-edit box, rather than using the file radio buttons. (Perhaps USE_FOPEN or USE_SETMODE would eliminate the problem, but I haven't heard from anyone who's tried it.)

On 680x0 Macs, Metrowerks defines type "double" as a 10-byte IEEE extended float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

The supplied configuration file jconfig.mac can be used for your jconfig.h; it includes all the recommended symbol definitions. If you have AppleScript installed, you can run the supplied script makeproj.mac to create CodeWarrior project files for the library and the testbed applications, then build the library and applications. (Thanks to Dan Sears and Don Agro for this nifty hack, which saves us from trying to maintain CodeWarrior project files as part of the IJG distribution...)

Macintosh, Think C:

The documentation in Jim Brunner's "JPEG Convert" source code (see above) includes detailed build instructions for Think C; it's probably somewhat out of date for the current release, but may be helpful.

If you want to build the minimal command line version, proceed as follows. You'll have to prepare project files for the programs; we don't include any in the distribution since they are not text files. Use the file lists in any of the supplied makefiles as a guide. Also add the ANSI and Unix C libraries in a separate segment. You may need to divide the JPEG files into more than one segment; we recommend dividing compression and decompression modules. Define USE_CCOMMAND in jconfig.h so that the ccommand() routine is called. You must also define TWO_FILE_COMMANDLINE because stdin/stdout don't handle binary data correctly.

On 680x0 Macs, Think C defines type "double" as a 12-byte IEEE extended float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

jconfig.mac should work as a jconfig.h configuration file for Think C, but the makeproj.mac AppleScript script is specific to CodeWarrior. Sorry.

MIPS R3000:

MIPS's cc version 1.31 has a rather nasty optimization bug. Don't use -O
if you have that compiler version. (Use "cc -V" to check the version.)

Note that the R3000 chip is found in workstations from DEC and others.

MS-DOS, generic comments for 16-bit compilers:

The IJG code is designed to work well 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, and you should avoid "huge" model if at all possible. Be sure that NEED_FAR_POINTERS is defined in jconfig.h if you use a small-data memory model; be sure it is NOT defined if you use a large-data model. (The supplied makefiles and jconfig files for Borland and Microsoft C compile in medium model and define NEED_FAR_POINTERS.)

The DOS-specific memory manager, jmemdos.c, should be used if possible. It needs some assembly-code routines which are in jmemdosa.asm; make sure your makefile assembles that file and includes it in the library. If you don't have a suitable assembler, you can get pre-assembled object files for jmemdosa by FTP from ftp.uu.net:/graphics/jpeg/jdosaobj.zip. (DOS-oriented distributions of the IJG source code often include these object files.)

When using jmemdos.c, jconfig.h must define USE_MSDOS_MEMMGR and must set MAX_ALLOC_CHUNK to less than 64K (65520L is a typical value). If your C library's far-heap malloc() can't allocate blocks that large, reduce MAX_ALLOC_CHUNK to whatever it can handle.

If you can't use jmemdos.c for some reason --- for example, because you don't have an assembler to assemble jmemdosa.asm --- you'll have to fall back to jmemansi.c or jmemname.c. You'll probably still need to set MAX_ALLOC_CHUNK in jconfig.h, because most DOS C libraries won't malloc() more than 64K at a time. IMPORTANT: if you use jmemansi.c or jmemname.c, you will have to compile in a large-data memory model in order to get the right stdio library. Too bad.

wrjpgcom needs to be compiled in large model, because it malloc()s a 64KB work area to hold the comment text. If your C library's malloc can't handle that, reduce MAX_COM_LENGTH as necessary in wrjpgcom.c.

Most MS-DOS compilers treat stdin/stdout as text files, so you must use two-file command line style. But if your compiler has either fdopen() or setmode(), you can use one-file style if you like. To do this, define USE_SETMODE or USE_FDOPEN so that stdin/stdout will be set to binary mode. (USE_SETMODE seems to work with more DOS compilers than USE_FDOPEN.) You should test that I/O through stdin/stdout produces the same results as I/O.
to explicitly named files... the "make test" procedures in the supplied
makefiles do NOT use stdin/stdout.

MS-DOS, generic comments for 32-bit compilers:

None of the above comments about memory models apply if you are using a
32-bit flat-memory-space environment, such as DJGPP or Watcom C. (And you
should use one if you have it, as performance will be much better than
8086-compatible code!) For flat-memory-space compilers, do NOT define
NEED_FAR_POINTERS, and do NOT use jmemdos.c. Use jmemnobs.c if the
environment supplies adequate virtual memory, otherwise use jmemansi.c or
jmemname.c.

You'll still need to be careful about binary I/O through stdin/stdout.
See the last paragraph of the previous section.

MS-DOS, Borland C:

Be sure to convert all the source files to DOS text format (CR/LF newlines).
Although Borland C will often work OK with unmodified Unix (LF newlines)
source files, sometimes it will give bogus compile errors.
"Illegal character '#"' is the most common such error. (This is true with
Borland C 3.1, but perhaps is fixed in newer releases.)

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE.
jconfig.bcc already includes #define USE_SETMODE to make this work.
(fdopen does not work correctly.)

MS-DOS, Microsoft C:

makefile.mc6 works with Microsoft C, DOS Visual C++, etc. It should only
be used if you want to build a 16-bit (small or medium memory model) program.

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE.
jconfig.mc6 already includes #define USE_SETMODE to make this work.
(fdopen does not work correctly.)

Note that this makefile assumes that the working copy of itself is called
"makefile". If you want to call it something else, say "makefile.mak",
be sure to adjust the dependency line that reads "$(RFILE) : makefile".
Otherwise the make will fail because it doesn't know how to create "makefile".
Worse, some releases of Microsoft's make utilities give an incorrect error
message in this situation.

Old versions of MS C fail with an "out of macro expansion space" error
because they can't cope with the macro TRACEMS8 (defined in jerror.h). If this happens to you, the easiest solution is to change TRACEMS8 to expand to nothing. You'll lose the ability to dump out JPEG coefficient tables with djpeg -debug -debug, but at least you can compile.

Original MS C 6.0 is very buggy; it compiles incorrect code unless you turn off optimization entirely (remove -O from CFLAGS). 6.00A is better, but it still generates bad code if you enable loop optimizations (-Ol or -Ox).

MS C 8.0 crashes when compiling jquant1.c with optimization switch /Oo ... which is on by default. To work around this bug, compile that one file with /Oo-.

Microsoft Windows (all versions), generic comments:

Some Windows system include files define typedef boolean as "unsigned char". The IJG code also defines typedef boolean, but we make it an "enum" by default. This doesn't affect the IJG programs because we don't import those Windows include files. But if you use the JPEG library in your own program, and some of your program's files import one definition of boolean while some import the other, you can get all sorts of mysterious problems. A good preventive step is to make the IJG library use "unsigned char" for boolean. To do that, add something like this to your jconfig.h file:

/* Define "boolean" as unsigned char, not enum, per Windows custom */
#endif __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif FALSE /* in case these macros already exist */
#define FALSE 0 /* values of boolean */
#endif TRUE
#define TRUE 1
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
(This is already in jconfig.vc, by the way.)

windef.h contains the declarations
#define far
#define FAR far
Since jmorecfg.h tries to define FAR as empty, you may get a compiler warning if you include both jpeglib.h and windef.h (which windows.h includes). To suppress the warning, you can put "#ifndef FAR"/"#endif" around the line "#define FAR" in jmorecfg.h. (Something like this is already in jmorecfg.h, by the way.)

When using the library in a Windows application, you will almost certainly want to modify or replace the error handler module jerror.c, since our
default error handler does a couple of inappropriate things:
1. it tries to write error and warning messages on stderr;
2. in event of a fatal error, it exits by calling exit().

A simple stopgap solution for problem 1 is to replace the line
fprintf(stderr, "\n", buffer);
(in output_message in jerror.c) with
MessageBox(GetActiveWindow(),buffer,"JPEG Error",MB_OK|MB_ICONERROR);
It's highly recommended that you at least do that much, since otherwise
error messages will disappear into nowhere. (Beginning with IJG v6b, this
code is already present in jerror.c; just define USE WINDOWS MESSAGEBOX in
jconfig.h to enable it.)

The proper solution for problem 2 is to return control to your calling
application after a library error. This can be done with the setjmp/longjmp
technique discussed in libjpeg.txt and illustrated in example.c. (NOTE:
some older Windows C compilers provide versions of setjmp/longjmp that
don't actually work under Windows. You may need to use the Windows system
functions Catch and Throw instead.)

The recommended memory manager under Windows is jmemnobs.c; in other words,
let Windows do any virtual memory management needed. You should NOT use
jmemdos.c nor jmemdosa.asm under Windows.

For Windows 3.1, we recommend compiling in medium or large memory model;
for newer Windows versions, use a 32-bit flat memory model. (See the MS-DOS
sections above for more info about memory models.) In the 16-bit memory
models only, you'll need to put
#define MAX_ALLOC_CHUNK 65520L /* Maximum request to malloc() */
into jconfig.h to limit allocation chunks to 64Kb. (Without that, you'd
have to use huge memory model, which slows things down unnecessarily.)
jmemnobs.c works without modification in large or flat memory models, but to
use medium model, you need to modify its jpeg_get_large and jpeg_free_large
routines to allocate far memory. In any case, you might like to replace
its calls to malloc and free with direct calls on Windows memory allocation
functions.

You may also want to modify jdatasrc.c and jdatadst.c to use Windows file
operations rather than fread/fwrite. This is only necessary if your C
compiler doesn't provide a competent implementation of C stdio functions.

You might want to tweak the RGB_xxx macros in jmoredfg.h so that the library
will accept or deliver color pixels in BGR sample order, not RGB; BGR order
is usually more convenient under Windows. Note that this change will break
the sample applications cjpeg/djpeg, but the library itself works fine.

Many people want to convert the IJG library into a DLL. This is reasonably
straightforward, but watch out for the following:

1. Don't try to compile as a DLL in small or medium memory model; use large model, or even better, 32-bit flat model. Many places in the IJG code assume the address of a local variable is an ordinary (not FAR) pointer; that isn't true in a medium-model DLL.

2. Microsoft C cannot pass file pointers between applications and DLLs. (See Microsoft Knowledge Base, PSS ID Number Q50336.) So jdatasrc.c and jdatadst.c don't work if you open a file in your application and then pass the pointer to the DLL. One workaround is to make jdatasrc.c/jdatadst.c part of your main application rather than part of the DLL.

3. You'll probably need to modify the macros GLOBAL() and EXTERN() to attach suitable linkage keywords to the exported routine names. Similarly, you'll want to modify METHODDEF() and JMETHOD() to ensure function pointers are declared in a way that lets application routines be called back through the function pointers. These macros are in jmorecfg.h. Typical definitions for a 16-bit DLL are:

   #define GLOBAL(type) type _far _pascal _loadds _export
   #define EXTERN(type) extern type _far _pascal _loadds
   #define METHODDEF(type) static type _far _pascal
   #define JMETHOD(type, methodname, arglist) \type (_far _pascal *methodname) arglist

   For a 32-bit DLL you may want something like

   #define GLOBAL(type) _declspec(dllexport) type
   #define EXTERN(type) extern _declspec(dllexport) type

   Although not all the GLOBAL routines are actually intended to be called by the application, the performance cost of making them all DLL entry points is negligible.

The unmodified IJG library presents a very C-specific application interface, so the resulting DLL is only usable from C or C++ applications. There has been some talk of writing wrapper code that would present a simpler interface usable from other languages, such as Visual Basic. This is on our to-do list but hasn't been very high priority --- any volunteers out there?

Microsoft Windows, Borland C:

The provided jconfig.bcc should work OK in a 32-bit Windows environment, but you'll need to tweak it in a 16-bit environment (you'd need to define NEED_FAR_POINTERS and MAX_ALLOC_CHUNK). Beware that makefile.bcc will need alteration if you want to use it for Windows --- in particular, you should use jmemnobs.c not jmemdos.c under Windows.

Borland C++ 4.5 fails with an internal compiler error when trying to compile jdmerge.c in 32-bit mode. If enough people complain, perhaps Borland will fix
it. In the meantime, the simplest known workaround is to add a redundant definition of the variable range_limit in h2v1_merge_upsample(), at the head of the block that handles odd image width (about line 268 in v6 jdmerge.c):
/* If image width is odd, do the last output column separately */
if ((cinfo->output_width & 1) {
    register JSAMPLE * range_limit = cinfo->sample_range_limit; /* ADD THIS */
    cb = GETJSAMPLE(*inptr1);
}
Pretty bizarre, especially since the very similar routine h2v2_merge_upsample doesn't trigger the bug.
Recent reports suggest that this bug does not occur with "bcc32a" (the Pentium-optimized version of the compiler).

Another report from a user of Borland C 4.5 was that incorrect code (leading to a color shift in processed images) was produced if any of the following optimization switch combinations were used:
-Ot -Og
-Ot -Op
-Ot -Om
So try backing off on optimization if you see such a problem. (Are there several different releases all numbered "4.5"??)

Microsoft Windows, Microsoft Visual C++:

jconfig.vc should work OK with any Microsoft compiler for a 32-bit memory model. makefile.vc is intended for command-line use. (If you are using the Developer Studio environment, you may prefer the DevStudio project files; see below.)

IJJ JPEG 7 adds extern "C" to jpeglib.h. This avoids the need to put extern "C" {...} around #include "jpeglib.h" in your C++ application. You can also force VC++ to treat the library as C++ code by renaming all the *.c files to *.cpp (and adjusting the makefile to match).
In this case you also need to define the symbol DONT_USE_EXTERN_C in the configuration to prevent jpeglib.h from using extern "C".

Microsoft Windows, Microsoft Visual C++ 6 Developer Studio:

We include makefiles that should work as project files in Developer Studio 6.0 or later. There is a library makefile that builds the IJJ library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:
1. Open the command prompt, change to the main directory and execute the
command line
NMAKE /f makefile.vs setup-vc6
This will move jconfig.vc to jconfig.h and makefiles to project files.
(Note that the renaming is critical!)

2. Open the workspace file jpeg.dsw, build the library project.
   (If you are using Developer Studio more recent than 6.0, you'll probably get a message saying that the project files are being updated.)
3. Open the workspace file apps.dsw, build the application projects.
4. To perform the self-test, execute the command line
   NMAKE /f makefile.vs test-build
5. Move the application .exe files from `app`\Release to an appropriate location on your path.

Microsoft Windows, Visual Studio 2017 (v15):

We include makefiles that should work as project files in Visual Studio 2017 (v15) or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:
1. Open the Developer Command Prompt, change to the main directory and execute the command line
   NMAKE /f makefile.vs setup-v15
   This will move jconfig.vc to jconfig.h and makefiles to project files.
   (Note that the renaming is critical!)
2. Open the solution file jpeg.sln, build the library project.
   a) If you are using Visual Studio more recent than 2017 (v15), you'll probably get a message saying that the project files are being updated.
   b) If necessary, open the project properties and adapt the Windows Target Platform Version in the Configuration Properties, General section; we support the latest version at the time of release.
3. Open the solution file apps.sln, build the application projects.
4. To perform the self-test, execute the command line
   NMAKE /f makefile.vs test-build
5. Move the application .exe files from `app`\Release to an appropriate location on your path.

OS/2, Borland C++:

Watch out for optimization bugs in older Borland compilers; you may need to back off the optimization switch settings. See the comments in
SGI:

On some SGI systems, you may need to set "AR2= ar -ts" in the Makefile. If you are using configure, you can do this by saying

```
./configure RANLIB='ar -ts'
```

This change is not needed on all SGIs. Use it only if the make fails at the stage of linking the completed programs.

On the MIPS R4000 architecture (Indy, etc.), the compiler option "-mips2" reportedly speeds up the float DCT method substantially, enough to make it faster than the default int method (but still slower than the fast int method). If you use -mips2, you may want to alter the default DCT method to be float. To do this, put "#define JDCT_DEFAULT JDCT_FLOAT" in jconfig.h.

VMS:

On an Alpha/VMS system with MMS, be sure to use the "/Marco=Alpha=1" qualifier with MMS when building the JPEG package.

VAX/VMS v5.5-1 may have problems with the test step of the build procedure reporting differences when it compares the original and test images. If the error points to the last block of the files, it is most likely bogus and may be safely ignored. It seems to be because the files are Stream_LF and Backup/Compare has difficulty with the (presumably) null padded files. This problem was not observed on VAX/VMS v6.1 or AXP/VMS v6.1.

Found in path(s):

* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/install.txt

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

/*
* djpeg.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 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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/djpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * jdatasrc.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 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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdatasrc.c
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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/coderules.txt
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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcomapi.c
No license file was found, but licenses were detected in source scan.

/ *
 * jconfig.txt
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * Modified 2009-2013 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 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().
 */
#undef void char

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

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

/* Define "boolean" as unsigned char, not enum, on Windows systems.
 */
#if defined _WIN32
#ifdef __RPCNDR_H__
/* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#endif
#endif
#define FALSE 0
#define TRUE 1
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */

/*
 * The following options affect code selection within the JPEG library,
 * but they don't need to be visible to applications using the library.
 */
To minimize application namespace pollution, the symbols won't be defined unless JPEG_INTERNALS has been defined.

#ifdef JPEG_INTERNALS
/* Define this if your compiler implements ">>" on signed values as a logical (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift, which is the normal and rational definition. */
#undef RIGHT_SHIFT_IS_UNSIGNED
#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. */
#ifdef 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
#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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jconfig.txt
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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/wrjpgcom.c
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 MAXISAMPLE 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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdcolmap.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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/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 jeparam.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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcapimin.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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdjpgcom.c
No license file was found, but licenses were detected in source scan.

/*
 * jccoeffct.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.
 */
Open Source Used In HyperFlex HX Data Platform 4.5(2d)  15274

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jccoefct.c
No license file was found, but licenses were detected in source scan.

/*
* jdmaker.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modified 2009-2013 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 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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdmaker.c
No license file was found, but licenses were detected in source scan.

/*
* jquant1.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2011 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 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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jquant1.c
No license file was found, but licenses were detected in source scan.

/*
* jccolor.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2011-2013 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 input colorspace conversion routines.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jccolor.c

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

/*
 * jdarith.c
 *
 * Developed 1997-2015 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy decoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdarith.c

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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/wrtarga.c

No license file was found, but licenses were detected in source scan.
/*
 * jpegtran.c
 * 
 * Copyright (C) 1995-2013, 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 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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jpegtran.c
No license file was found, but licenses were detected in source scan.

/*
 * rdppm.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 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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdppm.c
No license file was found, but licenses were detected in source scan.

/*
 * jaricom.c
 *
 * Developed 1997-2011 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.3 in the JPEG spec (D.2 in the draft),
 * ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81, and Table 24
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jaricom.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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jutils.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.

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.

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

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

Outline of typical usage
------------------------
The rough outline of a JPEG compression operation is:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,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 jmmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmmorecfg.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 = 9 to 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 (i.e., at most 256 colors for an 8-bit JPEG library).

Compression details
-------------------
Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

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

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

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

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

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

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

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

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

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

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

where the last line invokes the standard destination module.
WARNING: it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use 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

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

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

4. jpeg_start_compress(...);

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

Typical code:

jpeg_start_compress(&cinfo, TRUE);

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

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

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

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

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

The library maintains a count of the number of scanlines written so far in the next_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height)".
Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

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

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

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

jpeg_write_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:

* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen.

In any case, the return value is the same as the change in the value of next_scanline.

6. jpeg_finish_compress(...);

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

Typical code:

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

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

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.
It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.

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

7. Release the JPEG compression object.

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

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

Typical code:

jpeg_destroy_compress(&cinfo);

8. Aborting.

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

* If you don't need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects.
This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

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

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

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

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

1. Allocate and initialize a JPEG decompression object.

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

   Typical code:

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

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

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

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

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

   ```c
   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:

```c
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:

```c
jpeg_destroy_decompress(&cinfo);
```


You can abort a decompression cycle by calling `jpeg_destroy_decompress()` or `jpeg_destroy()` if you don't need the JPEG object any more, or `jpeg_abort_decompress()` or `jpeg_abort()` if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

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

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
=================
Compression parameter selection
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)
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:
boolean arith_code
If TRUE, use arithmetic coding.
If FALSE, use Huffman coding.

int block_size
Set DCT block size. All N from 1 to 16 are possible.
Default is 8 (baseline format).
Larger values produce higher compression,
smaller values produce higher quality.
An exact DCT stage is possible with 1 or 2.
With the default quality of 75 and default Luminance qtable
the DCT+Quantization stage is lossless for value 1.
Note that values other than 8 require a SmartScale capable decoder,
introduced with IJG JPEG 8. Setting the block_size parameter for
compression works with version 8c and later.

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.

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 supported scaling ratios are
M/N with all N from 1 to 16, where M is the destination DCT size,
which is 8 by default (see block_size parameter above).
(The library design allows for arbitrary scaling ratios but this
is not likely to be implemented any time soon.)

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_colorspace() if you want to change these.

J_COLOR_TRANSFORM color_transform
Internal color transform identifier, writes LSE marker if nonzero
Two values are currently possible: JCT_NONE and JCT_SUBTRACT_GREEN. Set this value for lossless RGB application *before* calling jpeg_set_colorspace(), because entropy table assignment in jpeg_set_colorspace() depends on color_transform.

**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".

**boolean do_fancy_downsampling**

If TRUE, use direct DCT scaling with DCT size > 8 for downsampling of chroma components.

If FALSE, use only DCT size <= 8 and simple separate downsampling.

Default is TRUE.

For better image stability in multiple generation compression cycles.
it is preferable that this value matches the corresponding
do_fancy_upsampling value in decompression.

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]
Linear quantization scaling factors (percentage, initialized 100)
for use with jpeg_default_qtables().
See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] fields are the "linear" scales, so you have to convert from user-defined ratings via jpeg_quality_scaling().
Here is an example code which 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: You must also set 1x1 subsampling for efficient separate color quality selection, since the default value used by library is 2x2:

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.

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
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. Currently, the supported scaling ratios are M/N with all M from 1 to 16, where N is the source DCT size, which is 8 for baseline JPEG. (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) The values are initialized by jpeg_read_header() with the source DCT size. For baseline JPEG this is 8/8. If you change only the scale_num value while leaving the other unchanged, then this specifies the DCT scaled size to be applied on the given input. For baseline JPEG this is equivalent to M/8 scaling, since the source DCT size for baseline JPEG is 8. 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:
J_DITHER_NONE no dithering: fast, very low quality
J_DITHER_ORDERED ordered dither: moderate speed and quality
J_DITHER_FS Floyd-Steinberg dither: slow, high quality
Default is J_DITHER_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, use direct DCT scaling with DCT size > 8 for upsampling of chroma components.
If FALSE, use only DCT size <= 8 and simple separate upsampling.
Default is TRUE.
For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding do_fancy_downsampling value in compression.

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 JPEG file interchange format standards specify YCbCr or GRAYSCALE
data (JFIF version 1), GRAYSCALE, RGB, YCbCr, CMYK, or YCCK (Adobe), or BG_RGB
or BG_YCC (big gamut color spaces, JFIF version 2). For special applications
such as multispectral images, other color spaces can be used,
but it must be understood that such files will be unportable.

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

For compression, the source data's color space is specified by field
in_color_space. This is transformed to the JPEG file's color space given
by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color
space depending on in_color_space, but you can override this by calling
jpeg_set_colorspace(). Of course you must select a supported transformation.
jccolor.c currently supports the following transformations:
RGB => YCbCr
RGB => GRAYSCALE
RGB => BG_YCC
YCbCr => GRAYSCALE
YCbCr => BG_YCC
CMYK => YCCK
plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB,
BG_RGB => BG_RGB, YCbCr => YCbCr, BG_YCC => BG_YCC, CMYK => CMYK,
YCCK => YCCK, and UNKNOWN => UNKNOWN.

The file interchange 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 interchange 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_colors() in jcparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space,
and this is transformed to the output color space out_color_space.
jpeg_read_header's setting of jpeg_color_space can be relied on if the file
conforms to JFIF or Adobe conventions, but otherwise it is no better than a
guess. If you know the JPEG file's color space for certain, you can override
jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also
selects a default output color space based on (its guess of) jpeg_color_space;
set out_color_space to override this. Again, you must select a supported
transformation. jdcolor.c currently supports
YCbCr => RGB
YCbCr => GRAYSCALE
BG_YCC => RGB
BG_YCC => GRAYSCALE
RGB => GRAYSCALE
GRAYSCALE => RGB
YCCK => CMYK
as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an
application can force grayscale JPEGs to look like color JPEGs if it only
wants to handle one case.)

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

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

Error handling
--------------

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

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

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

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

The individual methods that you might wish to override are:

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

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

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

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

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

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

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

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

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

Compressed data handling (source and destination managers)
----------------------------------------------------------

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

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

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

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

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

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

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

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

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

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

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

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

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

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

A data source manager provides five methods:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:
* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.

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

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

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

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

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

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

Multiple-buffer management:

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

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

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

Progressive JPEG support

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

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

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

Progressive compression:

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

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of
a multi-scan file during jpeg_start_decompress(), so that it can provide a
final decoded image. (Here “multi-scan” means either progressive or
multi-scan sequential.) This makes multi-scan files transparent to the
decoding application. However, existing applications that used suspending
input with version 5 of the IJG library will need to be modified to check
for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library’s
buffered-image mode. This is described in the next section.

Buffered-image mode

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

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:

```c
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_quantFixed color cube colormap
- enable_external_quantExternally-supplied colormap
- enable_2pass_quantTwo-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
Generally, you don't want to set `optimize_coding = TRUE` when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See `jpeg_copy_critical_parameters()` for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

```c
if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]; /**< quant_ptr is JQUANT_TBL */
for (i = 0; i < 64; i++)
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
```

Code to load a fixed Huffman table is typically (for AC table "n"):

```c
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /**< huff_ptr is JHUFF_TBL */
for (i = 1; i <= 16; i++)
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
for (i = 0; i < 256; i++)
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
```

(Note that trying to set `cinfo.quant_tbl_ptrs[n]` to point directly at a constant `JQUANT_TBL` object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The `jpeg_read_header()` call is sufficient to read a tables-only file. You must pass a second parameter of
FALSE to indicate that you do not require an image to be present. Thus, the typical scenario is

create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass FALSE and check the return value from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found, JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value, JPEG_SUSPENDED, is possible when using a suspending data source manager.) Note that jpeg_read_header() will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at term_destination() time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing FALSE to jpeg_start_compress().

Special markers
-------------

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file
format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized -- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by comment_text:

```
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));
```

If it's not convenient to store all the marker data in memory at once, you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it's your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension").
Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don’t forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct JFIF version number in the JFIF header marker. The library’s default is to write version 1.01, but that’s wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it’s safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:
1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.

The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it’s been processed.

For either method, you’d normally set up marker handling after creating a decompression object and before calling jpeg_read_header(), because the markers of interest will typically be near the head of the file and so will be scanned by jpeg_read_header. Once you’ve established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call
jpeg_save_markers(cinfo, marker_code, length_limit)
where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n. (To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than length_limit data bytes, only length_limit bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set length_limit to 0xFFFF; that is enough since marker lengths are only 16 bits. As a special case, setting length_limit to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by following the cinfo->marker_list pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but
omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed length_limit for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which jpeg_read_header stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing jpeg_read_header, to ensure that the max_memory_to_use setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call jpeg_finish_decompress or jpeg_abort, at which point the memory is freed and the list is set to empty. (jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by malloc() limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling jpeg_set_marker_processor(). A marker processor routine must have the signature

boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)

Although the marker code is not explicitly passed, the routine can find it in cinfo->unread_marker. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in jdmarker.c for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling jpeg_save_markers(); that method doesn't interfere with the library's own processing of these markers.)
jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c. Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
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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 block_size valid samples, and there must be a multiple of block_size 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.

Furthermore, set cinfo->do_fancy_downsampling to FALSE if you want to use real downsampled data. (It is set TRUE by jpeg_set_defaults().)
* 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*block_size sample rows of each component. The passed num_lines value must be at least max_v_samp_factor*block_size, 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*block_size samples per row
cinfo->comp_info[i].height_in_blocks*block_size 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 block_size 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 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. Furthermore, set cinfo->do_fancy_upsampling = FALSE if you want to get real downsampled data (it is set TRUE by jpeg_read_header()).

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*block_size 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 read structure.txt's discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component's comp_info entry.) This is also the data format expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress() to release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This frammish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is:

* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object

`jpeg_write_coefficients()` is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to `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
completed_passes + (pass_counter/pass_limit)
---------------------------------------------------------------
total_passes

ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it
depends on the number of scans in the JPEG file, which isn't always known in
advance. The computed fraction-of-work-done may jump suddenly (if the library
disCOVERs it has overestimated the number of scans) or even decrease (in the
opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work
estimate is likely to be completely unhelpful, because the library has no way
to know how many output passes will be demanded of it. Currently, the library
sets total_passes based on the assumption that there will be one more output
pass if the input file end hasn't yet been read (jpeg_input_complete() isn't
TRUE), but no more output passes if the file end has been reached when the
output pass is started. This means that total_passes will rise as additional
output passes are requested. If you have a way of determining the input file
size, estimating progress based on the fraction of the file that's been read
will probably be more useful than using the library's value.
Memory management

This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read structure.txt's section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

```
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
```

Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object.

Use alloc_large instead of alloc_small for anything bigger than a few Kbytes. There are also alloc_sarray and alloc_barray routines that automatically build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no temporary files are used; virtual arrays are simply malloc()'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before jpeg_start_compress() or jpeg_start_decompress() in order to have them counted against the max memory limit. Also keep in mind that space allocated with alloc_small() is ignored, on the assumption that
it's too small to be worth worrying about; so a reasonable safety margin should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with jmemdos.c, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either jpeg_abort() or jpeg_destroy() for any active JPEG objects. A handler is not needed with jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either, since the C library is supposed to take care of deleting files made with tmpfile().

Memory usage
------------

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 9-bit to 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 IJG code currently supports 8-bit to 12-bit sample data precision by defining BITS_IN_JSAMPLE as 8, 9, 10, 11, or 12. Note that a value larger than 8 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 deeper than 8-bit data only for PPM and GIF file formats; you must disable the other file formats to compile a 9-bit to 12-bit cjpeg or djpeg. (install.txt has more information about that.)

Run-time selection and conversion of data precision are currently not supported and may be added later.

Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

(If you need to include an 8-bit library and a 9-bit to 12-bit library for compression or decompression in a single application, you could probably do it by defining NEED_SHORTEXTERNAL NAM E S for just one of the copies. You'd have to access the 8-bit and the 9-bit to 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 the standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different 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 9-bit to 12-bit.
The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?

Portability considerations
--------------------------

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that char is at least 8 bits wide
short is at least 16 bits wide
int is at least 16 bits wide
long is at least 32 bits wide
(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work
equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

cchar can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg’s select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
---------------------------------

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 (e.g., 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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/libjpeg.txt

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.
*/

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* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jfdctflt.c
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/*
* 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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdtrans.c
No license file was found, but licenses were detected in source scan.

/*
* wrbmp.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 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.
*
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.

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.

This file provides a simple generic implementation of the system-dependent portion of the JPEG memory manager. This implementation assumes that you have the ANSI-standard library routine tmpfile().
Also, the problem of determining the amount of memory available...
/* is shoved onto the user. */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemansi.c
No license file was found, but licenses were detected in source scan.

/* *
 * jcapistd.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2013 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 "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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcapistd.c
No license file was found, but licenses were detected in source scan.

/* *
 * transupp.h
 *
 * Copyright (C) 1997-2013, 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):
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."
*/

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/*
* jerror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file defines the error and message codes for the JPEG library.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
* A set of error-reporting macros are defined too. Some applications using
* the JPEG library may wish to include this file to get the error codes
* and/or the macros.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jerror.h
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* Modified 2009-2013 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 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/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdapimin.c

1.1489 cxf-rt-fronted-jaxws 3.1.10
1.1489.1 Available under license:

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#define UV_PLATFORM_FS_EVENT_FIELDS                                           
  uv__io_t event_watcher;                                                     

#define UV_IO_PRIVATE_PLATFORM_FIELDS                                         
  int rcount;                                                                 
  int wcount;                                                                 

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */
Files: *
==========

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         a purpose that is entirely well-defined independent of the
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