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1.613 busybox 1.30.1-4ubuntu6.4

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1.614 update-notifier 3.192.30.10

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1.615 service-identity 18.1.0-1.ph3

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1.617 go-chi-chi 5.0.7

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1.619 libvirt-libvirt-go 7.4.0+incompatible

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1.620 ipset 7.5-1ubuntu0.20.04.1

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1.631 command-not-found 20.04.5

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1.638 lxc-go-lxc 2.0.0-20210307013912-d9b9f727ce0f

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1.640 gopkg.in-retry 1.0.3

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1.656 farjump-go-libudev 0.0.0-20171109190736-8b0739cd6d0b

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1.4 autotools-dev 20180224.1

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1.5 zlib 1.2.3

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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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1.6 libencode-locale-perl 1.05-1

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Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: Encode-Locale
Upstream-Contact: Gisle Aas <gisle@activestate.com>
Source: https://metacpan.org/release/Encode-Locale

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1.7 libfile-listing-perl 6.04-1

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Format-Specification: http://anonscm.debian.org/viewvc/dep/web/deps/dep5.mdwn?view=markup&pathrev=135
Maintainer: Gisle Aas <gisle@activestate.com>
Source: http://search.cpan.org/dist/File-Listing/
Name: File-Listing

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1.8 libio-html-perl 1.001-1

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Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: IO::HTML
Upstream-Contact: Christopher J. Madsen <perl@cjmweb.net>
Source: http://search.cpan.org/dist/IO-HTML/
git://github.com/madsen/io-html.git

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debian/control.in
debian/gbp.conf
debian/source/format
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1.9 zlib 1.2.8

1.9.1 Available under license :

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

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1.10 xdelta 3.0.11-dfsg-1ubuntu1

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1.11 pcre 8.39

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Written by: Philip Hazel
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1.12 lua 5.2.4

1.13 libidn 1.33-2.2ubuntu2

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1.17 libnetfilter-conntrack 1.0.7-2

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* $Id: pathnames.h,v 1.1 1996/07/13 23:46:07 dholland Exp $
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1.21 libsigsegv 2.12-2

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```
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/* List of signals that are sent when an invalid virtual memory address
  is accessed, or when the stack overflows.  */
#define SIGSEGV_FOR_ALL_SIGNALS(var,body) \
 { int var; var = SIGSEGV; { body } var =
 SIGBUS; { body } }
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#define SIGSEGV_FAULT_HANDLER_ARGLIST int sig, int code, void *scp, void *addr
#define SIGSEGV_FAULT_ADDRESS addr

1.22 numactl 2.0.12-1

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1.26 fonts-ubuntu 0.83-4ubuntu1

1.26.1 Available under license :

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Ubuntu Font Family Licensing FAQ

Stylistic Foundations

The Ubuntu Font Family is the first time that a libre typeface has been designed professionally and explicitly with the intent of developing a public and long-term community-based development process.

When developing an open project, it is generally necessary to have firm foundations: a font needs to maintain harmony within itself even across many type designers and writing systems. For the [1]Ubuntu Font Family, the process has been guided with the type foundry Dalton Maag setting the project up with firm stylistic foundation covering several left-to-right scripts: Latin, Greek and Cyrillic; and right-to-left

scripts: Arabic and Hebrew (due in 2011).

With this starting point the community will, under the supervision of [2]Canonical and [3]Dalton Maag, be able to build on the existing font sources to expand their character coverage. Ultimately everybody will be
able to use the Ubuntu Font Family in their own written languages across the whole of Unicode (and this will take some time!).

Licensing

The licence chosen by any free software project is one of the foundational decisions that sets out how derivatives and contributions can occur, and in turn what kind of community will form around the project.

Using a licence that is compatible with other popular licences is a powerful constraint because of the [4]network effects: the freedom to share improvements between projects allows free software to reach high-quality over time. Licence-proliferation leads to many incompatible licences, undermining the network effect, the freedom to share and ultimately making the libre movement that Ubuntu is a part of less effective. For all kinds of software, writing a new licence is not to be taken lightly and is a choice that needs to be thoroughly justified if this path is taken.

Today it is not clear to Canonical
what the best licence for a font
project like the Ubuntu Font Family is: one that starts life designed by professionals and continues with the full range of community development, from highly commercial work in new directions to curious beginners' experimental contributions. The fast and steady pace of the Ubuntu release cycle means that an interim libre licence has been necessary to enable the consideration of the font family as part of Ubuntu 10.10 operating system release.

Before taking any decision on licensing, Canonical as sponsor and backer of the project has reviewed the many existing licenses used for libre/open fonts and engaged the stewards of the most popular licenses in detailed discussions. The current interim licence is the first step in progressing the state-of-the-art in licensing for libre/open font development.

The public discussion must now involve everyone in the (comparatively new) area of the libre/open font community;
including font users,
software freedom advocates, open source supporters and existing libre font developers. Most importantly, the minds and wishes of professional

type designers considering entering the free software business community must be taken on board.

Conversations and discussion has taken place, privately, with individuals from the following groups (generally speaking personally on behalf of themselves, rather than their affiliations):

* [5]SIL International
* [6]Open Font Library
* [7]Software Freedom Law Center
* [8]Google Font API

Document embedding

One issue highlighted early on in the survey of existing font licences is that of document embedding. Almost all font licences, both free and unfree, permit embedding a font into a document to a certain degree. Embedding a font with other works that make up a document creates a "combined work" and copyleft would normally require the whole document to be distributed under the terms of the font licence. As beautiful as the font might be, such a licence makes a font too restrictive for useful general purpose digital publishing.

The situation is not entirely unique to fonts and is encountered also with tools such as GNU Bison: a vanilla GNU GPL licence would require anything generated with Bison to be made available under the terms of the GPL as well. To avoid this, Bison is [9]published with an additional permission to the GPL which allows the output of Bison to be made available under any licence.

The conflict between licensing of fonts and licensing of documents, is addressed in two popular libre font licences, the SIL OFL and GNU GPL:

* [10]SIL Open Font Licence: When OFL fonts are embedded in a document, the OFL's terms do not apply to that document. (See [11]OFL-FAQ for details.
* [12]GPL Font Exception: The situation is resolved by granting an additional permission to allow documents to not be covered by the GPL. (The exception is being reviewed).

The Ubuntu Font Family must also resolve this conflict, ensuring that if the font is embedded and then extracted it is once again clearly under the terms of its libre licence.

Long-term licensing

Those individuals involved, especially from Ubuntu and Canonical, are interested in finding a long-term libre licence that finds broad favour

across the whole libre/open font community. The deliberation during the past months has been on how to licence the Ubuntu Font Family in the short-term, while knowingly encouraging everyone to pursue a long-term goal.

* [13]Copyright assignment will be required so that the Ubuntu Font Family's licensing can be progressively expanded to one (or more) licences, as best practice continues to evolve within the libre/open font community.
* Canonical will support and fund legal work on libre font licensing.

  It is recognised that the cost and time commitments required are likely to be significant. We invite other capable parties to join in supporting this activity.

The GPL version 3 (GPLv3) will be used for Ubuntu Font Family build scripts and the CC-BY-SA for associated documentation and non-font content: all items which do not end up embedded in general works and documents.

Ubuntu Font Licence

For the short-term only, the initial licence is the [14]Ubuntu Font License (UFL). This is loosely inspired from the work on the SIL OFL 1.1, and seeks to clarify the issues that arose during discussions and legal review, from the perspective of the backers, Canonical Ltd. Those already using established licensing models such as the GPL, OFL or Creative Commons licensing should have no worries about continuing to use them. The Ubuntu Font Licence (UFL) and the SIL Open Font Licence (SIL OFL) are not identical and should not be confused with each other. Please read the terms precisely. The UFL is only intended as an interim license, and the overriding aim is to support the creation of a more suitable and generic libre font licence. As soon as such a licence is developed, the Ubuntu Font Family will migrate to itmade possible by copyright assignment in the interium. Between the OFL 1.1, and the UFL 1.0, the following changes are made to produce the Ubuntu Font Licence:

* Clarification:

1. Document embedding (see [15]embedding section above).
2. Apply at point of distribution, instead of receipt
3. Author vs. copyright holder disambiguation (type designers are authors, with the copyright holder normally being the funder)
4. Define "Propagate" (for internationalisation, similar to the GPLv3)
5. Define "Substantially Changed"
6. Trademarks are explicitly not transferred
7. Refine renaming requirement

Streamlining:

8. Remove "not to be sold separately" clause
9. Remove "Reserved Font Name(s)" declaration

A visual demonstration of how these points were implemented can be found in the accompanying coloured diff between SIL OFL 1.1 and the Ubuntu Font Licence 1.0: [16]ofl-1.1-ufl-1.0.diff.html

References

1. http://font.ubuntu.com/
2. http://www.canonical.com/
3. http://www.daltonmaag.com/
4. http://en.wikipedia.org/wiki/Network_effect
5. http://scripts.sil.org/
6. http://openfontlibrary.org/
7. http://www.softwarefreedom.org/
8. http://code.google.com/webfonts
9. http://www.gnu.org/licenses/gpl-faq.html#CanIUseGPLToolsForNF
10. http://scripts.sil.org/OFL_web
11. http://scripts.sil.org/OFL-FAQ_web
12. http://www.gnu.org/licenses/gpl-faq.html#FontException
13. https://launchpad.net/~uff-contributors
14. http://font.ubuntu.com/ufl/ubuntu-font-licence-1.0.txt
15. http://font.ubuntu.com/ufl/FAQ.html#embedding
16. http://font.ubuntu.com/ufl/ofl-1.1-ufl-1.0.diff.html

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1.27 open-isns 0.97-3

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1.28 ltrace 0.7.3-6.1ubuntu1

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1.32 coreutils 8.30-3ubuntu2

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1.38 libxau 1.0.9-0ubuntu1

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That's all there is to it!
Mathieu Desnoyers
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the
userspace RCU library in a patch submitted on May 8, 2009 from Paul E.
McKenney and reviewed by Steven L. Bennett:

  https://lists.lttng.org/pipermail/lttng-dev/2009-May/012835.html

I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and
barrier() from scratch without reference to the original code.

  commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his
patch in an email dated May 13, 2009 :

  http://lkml.org/lkml/2009/5/13/16

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel
and powerpc. They are MIT-licensed and therefore usable in LGPL code.
This cmpxchg code was obtained from the atomic_ops project:

 http://www.hpl.hp.com/research/linux/atomic_ops/

I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project
 was therefore changed to
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1.43 linux-atm 2.5.1-4

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

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That's all there is to it!
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```
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```

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```
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Mark Lord (mlord@pobox.com)

1.45 libxmu 1.1.3-0ubuntu1

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1.46 libsodium 1.0.18-1

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1.47 xauth 1.1-0ubuntu1

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1.48 kbd 2.0.4-4ubuntu2

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#
PC Screen (console) Fonts - psf1 header
#
0	leshort	0x0436	psf screen font data
>2	byte	0	256 characters, no index
>2	byte	1	512 characters, no index
>2 byte 2 256 characters, Unicode index
>2 byte 3 512 characters, Unicode index
>2 byte 4 256 characters, Unicode level 2 index
>2 byte 5 512 characters, Unicode level 2 index
>3 byte x 8x%d
#
PC Screen (console) Fonts - psf2 header
#
0	lelong	0x864ab572 psf2 screen font data
>12 lelong&1 1 with Unicode index
>16 lelong x \b, %d glyphs
>28 lelong x \b, %dx
>24 lelong x \b%d
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~~~<<0`0~<<~~<ff<~~<ff<l88l0~<~~<ff?<ff<vl8v8l0``|8l||8ld`````v||0`|||ff<~~<<<<<<<<<f<<fsff<<p8~vv~|```````
``~0`~`0ff<<<<ff0X8lDl8~<ff<<~f<<fffff|``0~`````````v~<|llxx<~0```00``000~<<ff8ll88lfff|ffff<ff<lffffffflfbhxh`bff
bhxh```<ff:<<xfflxxlff``````bf||fff|````||fff|lfff|`8|~~Z<|l8ll|88|lffff<<0`
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rJ
0`0|`00`|p~``lvffffb``````|`8|<<x|lllnmmmm```|ffffffllxxllf8````````vv||p0`||<f```f<```lvffffbb```|`8|8<ff<<lnmm````lvf
fffIxxlf`````<<<fff$lllllll|||0`8ll8vv000`00000000f<<f~00`||8x~|0`|<|<l|8`|0000||||~x00`0~~`00`|||8lfff|ffff<ff<lfffffflfb
hxh`bffbhxh```<ff:<<xfflxxlff``````bf||fff|````||fff|lfff|`8|~~Z<|l8ll|88|lffff<<0`<00000000<p8<<8l0x|v``xlffff|||<lv||62
0x0000xv|x``lvffff8<ff<``flxxlf8<ffffff||fffff|``v|vf```|`8|0000006vl8ll888l~0`pppv8l6fb``|fffffff|fffffb``````6fffffffbh
xh`bfZZ~~Z|<|l8fllxxllf6fffffff||ffff|```||<~|~~<l|88|l~0>3333~```|ffff|&>&|?fff>>fffx|v||ff|ffbb```6ffff||T|T|<|l8lxxlf6f
fff||DDDDDDDDUUUUUUUUwwwwwwww66666666666666666666666666666666666666666666666666666666666666666

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rJ
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>88880`~~<~~<0``0<~~<(ll(6f`0llllll<<<ff$lllllll|||0`8ll8vv000000000f<<f~00`||8x~|0`|<|<l|8`|0000||||~x00`0`00`|||8lfff|ffff<ff<lfffffflfbhxh`bffbhxh```<ff:<<xfflxxlff``````bf||fff|````||fff|lfff|d8|~~Z<|l8ll|88|lffff<<0`<00000000<`0<<8l000x|v``xlffff|||<lv||8ld`````v|x``lvffff8<ff<``flxxlf8<ffffff||fffff|``v|vf```|`8|0000006vfffff<ll888l~0`pppvfffff<<llllllll|`llllllo`|lllllllllllllllllllllll`olllllllllllo`olllllllllllllllllllllllllllllllllllllllllllllllllllll<<<||8l````fl2`````2ff<~~l8|`8||`8ll8|l8|`8|<BB<<ll>~6ll6~<BB<8ll8~~8l0|8ll8l80`v666666l80`0p00x8ll8|l6lwwnnfffff<<00000`|`08l8l8l8lv8ll8l8l88l>x<ff<f<`0f``|``ff``|``f8lf`|``flf``|``f`0<<<<<f<<f<<lfffffv`0||||8l||v||l||f<<f~`0||8l|l|ffff<<`|ffff|`|`0x|v0`x|v8lx|vvx|vlx|v8l8x|v~~||l8`0||0||8l||l||`08<08<<f8<l8<x0x~|vffffff`0||0||8l||v||l||~~`0v0`v0xvv0~``|ffff|``l~

1.49 libxext 1.3.4-0ubuntu1

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1.50 dash 0.5.10.2-6

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1.51 jansson 2.12-1build1

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1.52 sbsigntool 0.9.2-2ubuntu1

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sbsigntool - utilities for signing UEFI binaries for use with secure boot.

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1.53 tcltk-defaults 8.6.9+1

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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.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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

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

The "Library", below, refers to any such software library or work
which has been distributed
under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
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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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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Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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You should have received a copy of the GNU Library General Public
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Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, 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 3, 29 June 2007

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Preamble

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your programs, too.

When we speak of free software, we are referring to
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To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1)
assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand
ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source

form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered

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content, constitutes a covered work. This License acknowledges your
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for you must do so exclusively on your behalf, under your direction
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Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed;
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makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological
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similar laws prohibiting or restricting circumvention of such
measures.

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users, your or third parties' legal rights to forbid circumvention of
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4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately
publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey,

and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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---

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Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
traditional one-character options, and GNU'ish
--long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
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1.58 gpm 1.20.7-5

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1.59 libfastjson 0.99.8-2

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1.60 time 1.7-25.1build1

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1.61 libasyncns 0.8-6

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1.62 libxv 1.0.11-1

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1.68 libsamplerate 0.1.9-2

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1.69 distlib 0.3.0

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

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)

0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be

linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

6. As an exception to the Sections above, you may also 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.

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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.

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

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1.73 tpm-udev 0.4

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

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0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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The "Corresponding Source" for a work in object code form means all

the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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(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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threshold for this to be true is not precisely defined by law.

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1.83 d-conf 0.36.0-1

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

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

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

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

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user
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a pointer to where the full notice is found.

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

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1.88 groff 1.22.4-4build1

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src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp

. The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad

src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
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tmac/doc.tmac
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tmac/groff_mdoc.man

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tmac/e.tmac
tmac/groff_me.man
doc/meintro.me
doc/meintro_fr.me

doc/meref.me

Hyphenation Patterns

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of
the TeX system written by Donald E. Knuth; the master file can be found
at

ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex .

It has been renamed for consistency, i.e., to make patterns available
under the filenames `hyphen.<language>', e.g. `hyphen.de' or
`hyphen.uk'.

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. The file `tmac/hyphen.fr' contains the
same patterns as the file
`frhyph.tex' (for TeX), which can be found at

http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex .

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. The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which
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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same
patterns as the files `dehypht-x-2017-03-31.pat' and
`dehyphn-x-2017-03-31.pat' (for TeX), respectively, which can be found
at

http://ctan.org/tex-archive/language/hyphenation/dehyph-exptl

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. The file `tmac/hyphen.cs' contains the same patterns as the file
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1.89 automat 0.8.0-1ubuntu1

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1.90 e2fsprogs 1.45.5-2ubuntu1

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

```
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

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

image:  $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
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This is the Debian GNU/Linux prepackaged version of the translation
files of the EXT2 file system utilities. 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 added to the e2fsprogs debian source package by
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Index: tdbsa/tdb.c
===
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*

- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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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.

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works together with the library.

Note that it is possible for a library to be covered by the ordinary
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(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
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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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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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or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

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the terms permit
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relink to produce a modified
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That's all there is to it!
This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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DAMAGE.
This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the ss
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otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
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This package was put together by Yann Dirson <dirson@debian.org>,
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1.91 elfutils 0.176-1.1build1

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1.93 dmidecode 3.2-3

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1.96 libpcap 1.9.1-3

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1.97 lvm2 2.03.07-1ubuntu1

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1.101 libcap 2.32-1

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1.104 libcanberra 0.30-7ubuntu1

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

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(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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Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
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1.106 libogg 1.3.4-0ubuntu1

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This package was debianized by Christopher L Cheney <ccheney@debian.org> on
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References: <20110813065417.GV2324@audi.shelbyville.oz>
From: Silvia Pfeiffer <silviapfeiffer1@gmail.com>
Date: Sun, 14 Aug 2011 15:47:09 +1000
Message-ID: <CAHp8n2nmGN+G09aA118KN86NeX9yw_VJAQNFZebm74k195zz+Q@mail.gmail.com>
Subject: Re: Distributing the libogg RFCs in the Debian package
To: Ron <ron@debian.org>
Cc: Christopher Montgomery <monty@xiph.org>,
Ivo Emanuel Goncalves <justivo@gmail.com>

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1.107 irqbalance 1.6.0-3ubuntu1

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1.108 libassuan 2.5.3-7ubuntu2

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1.114 psmisc 23.3-1

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1.116 libxcb 1.14-2

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

Finally, software patents pose a constant threat to the existence
of
any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a

restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

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

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

a) Accompany the work with the complete corresponding machine-readable
source code for the Library including whatever
changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that

uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

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

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

the Library and of the other library facilities is otherwise
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1.119 libcbor 0.6.0-0ubuntu1

1.119.1 Available under license :

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1.120 gstreamer 1.16.2-2

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[This is the first released version of the library GPL. It is
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Preamble

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To protect your rights, we need to make restrictions that forbid
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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
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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
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Also, for each distributor's protection, we want to make certain
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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
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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
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Most GNU software, including some libraries, is covered by the ordinary
GNU General Public License, which was designed for utility programs. This
license, the GNU Library General Public License, applies to certain
designated libraries. This license is quite different from the ordinary
one; be sure to read it in full, and don't assume that anything in it is
the same as in the ordinary license.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

4. You may copy and distribute the Library (or a portion or

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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
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1.121 libpng 1.6.37-2

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1.122 localechooser 2.71ubuntu4

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Appendix: How to Apply These Terms to Your New Programs

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free software which everyone can redistribute and change under these terms.

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

<one line to give the program's name and a brief idea of what it does.>
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Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show
w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

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

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

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

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Version 2.1, February 1999

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under

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

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d) If a facility

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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.)

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identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate
works in
themselves, then this License, and its terms, do not apply to those
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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
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exercise the right to control the distribution of derivative or
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Once this change is made in a given copy, it is irreversible for

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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.

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
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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
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that the user who changes the contents of definitions files in the
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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
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d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above

specified materials from the same place.

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

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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1.126 grep 3.4-1

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to

use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand
ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

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To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

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To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

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a computer network, with no transfer of a copy,
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tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

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GSS-API mechglue layer.

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Fortuna in libhcrypto

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vis.c in libroken

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

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@heading Richard Outerbridge

DES core in libhcrypto

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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
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lib/hcrypto/test_dh.c

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1.132 vixie-cron 3.0pl1-136ubuntu1

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*
 /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/job.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.c
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* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/config.h
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/entry.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.h
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/env.c
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.\" $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
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.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
.\"
```

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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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Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]
[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta
 was December 9, 1988]
[V1.0 was May 6, 1987]
Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It
is functionally based on the SysV cron, which means that each user can have
their own crontab file (all crontab files are stored in a read-protected
directory, usually /var/cron/tabs). No direct support is provided for
'at'; you can continue to run 'atrun' from the crontab as you have been
doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files
"allow" and "deny" in /var/cron can be used to control access to the
"crontab" command (which installs crontabs). It hasn't been tested on
SysV, although some effort has gone into making the port an easy one.

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll

have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files
Edit config.h
Edit Makefile
(both of these files have instructions inside; note that
some things in config.h are definable in Makefile and are
therefore surrounded by #ifndef...#endif)
'make'
'su' and 'make install'
(you may have to install the man pages by hand)
kill your existing cron process
(actually you can run your existing cron if you want, but why?)
build new crontabs using /usr/lib/{crontab,crontab.local}
(either put them all in "root"'s crontab, or divide it up
and rip out all the 'su' commands, collapse the lengthy
lists into
ranges with steps -- basically, this step is
as much work as you want to make it)
start up the new cron
(must be done as root)
watch it. test it with 'crontab -r' and watch the daemon track your
changes.
if you like it, change your /etc/{rc,rc.local} to use it instead of
the old one.

$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp $

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.\"
.\" @(#)bitstring.3 5.1
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linked without the Library, or if the work is itself a library. The
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1.138 unattended-upgrades 0.1

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

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

- -

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

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

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

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

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

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

```
  * MoreFiles
  *
  * A collection of File Manager and related routines
  *
  * by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
  * with significant code contributions by Nitin Ganatra
```

```
   * (Apple Macintosh Developer Technical Support Emeritus)
   * Copyright  1992-1998
Apple Computer, Inc.
   * Portions copyright  1995 Jim Luther
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   * The Package "More Files" is distributed under the following
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   *
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   *          However, what you are not permitted to do is to
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   *          it clear in the source that the code was descended
   *          from Apple Sample Code, but that you've made
   *          changes."
```

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Info-ZIP license, they do not add further restrictions.

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

```
   *  MacBinaryIII.h
   *
   *  Copyright 1997 Christopher Evans (cevans@poppybank.com)
   *
   *  Basic encoding and decoding of Macintosh files to the
   *  MacBinary III spec.
   * ---------------------------------------------------------------------
   * This source is copyrighted by Christopher Evans (cevans@poppybank.com)
   * (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
   * homepage of Leonard Rosenthol  leonardr@netcom.com)
```

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

The remaining copyright notes have been superseeded by the new
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The following copyright applies to the full-featured unreduce.c
(now distributed separately):

```
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 *
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 * If you use this in your own program you must distribute source code.
 * Do not use any of this in a commercial product.
```

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

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

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

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

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```
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```

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```
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```

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The following copyright applied to the Windows DLL code (windll/*),
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UnZip," distributed with UnZip version 5.3 and later:

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

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

1.141 pixman 0.38.4-0ubuntu1

1.141.1 Available under license :

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*/

1.142 libthai 0.1.28-3

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1.152 pango 1.44.7-2ubuntu4

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1.154 isl 0.22.1-1

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1.158 zstd 1.3.6

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1.159 jsonschema 2.6.0

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set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45

set style histogram errorbars gap 2 lw 1
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1.161 incremental 16.10.1-3.2

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1.166 hostname 3.23

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1.167 acl 2.2.53-6

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline

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1.168 sed 4.7-1

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1.172 ncurses 6.2-0ubuntu2

1.172.1 Available under license :

Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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1.173 libsepol 3.0-1

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1.174 base-passwd 3.5.47

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1.176 cracklib 2.9.6-3.2

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified

executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)

will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

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

^L

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

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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!

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=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
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
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> > Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
> > it was enough to just get it consistent and documented as to what
> it was

> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
>=20
> the original license (before moving to sourceforge -- aka, 2.7) was
> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.
>=20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library
to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I
think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct

license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional
code, so whatever licensing y'all come up with is fine
> > by me.
>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro

> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > 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);
  Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from

[82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
585
Lines: 21

>
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.177 libpwquality 1.4.2-1build1

1.177.1 Available under license :

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software

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

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1.180 less 551-1ubuntu0.1

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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

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

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

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

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

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

6. As an exception to the Sections above, you may also 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
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changes were used in the work (which must be distributed under
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with the Library, with the complete machine-readable "work that
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user can modify the Library and then relink to produce a modified
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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,
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properly with a modified version of the library, if
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c) Accompany the work with a written offer, valid for at
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d) If distribution of the work is made by offering access to copy
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For an executable, the required form of the "work that uses the
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It may happen that this requirement contradicts the license
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1.183 strace 5.5-3ubuntu1

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the

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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.

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

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

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6. As an exception to the Sections above, you may also combine or link
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For an executable, the required form of the "work that uses the Library"
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1.186 libvisual 0.4.0-17

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under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

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

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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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1.187 nfs-utils 0.25-5.1ubuntu1

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1.188 sharutils 4.15.2-4build1

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1.189 openssh 8.2p1

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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

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

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

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

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

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

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

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

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1.193 atk 2.35.1-1ubuntu2

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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
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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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d) If a facility in the modified Library refers to a function or a
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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 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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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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1.194 mpg123 1.25.13-1

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==========
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1.195 lame 3.100-3

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1.196 orc 0.4.31-1

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1.197 wayland 1.18.0-1

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1.200 at-spi2-core 2.36.0-2

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1.201 libpciaccess 0.16-0ubuntu1

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1.204 libvpx 1.8.2-1build1

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1.205 libflac 1.3.3-1build1

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1.208 libxi 1.7.10-0ubuntu1

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1.209 twolame 0.4.0-2

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1.210 theora 1.1.1+dfsg.1-15ubuntu2

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1.211 libshout 2.4.3-1

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Because of this blurred distinction, using the ordinary General
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concluded that weaker conditions might promote sharing better.

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

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1.213 cdebconf 0.251ubuntu1

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1.214 xkeyboard-config 2.29-2

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1.215 pygobject 3.36.0-1

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1.216 python-requests 2.22.0-2ubuntu1

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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 form the ones in the Monotone project, revision
 3a0982da308228d796df35f98d787c5cff2bb5b6.

 Author: Julio Merino <jmmv@NetBSD.org>

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

 Author: Julio Merino <jmmv84@gmail.com>

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

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

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   <xsl:param name="text"/>
   <xsl:value-of select="$isc.copyright.leader"/>
   <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
   <xsl:text>&#10;</xsl:text>
   <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
   <xsl:if test="translate($rest, '&#9;&#32;', '')">
     <xsl:call-template name="isc.copyright.format">
       <xsl:with-param
 name="text" select="$rest"/>
     </xsl:call-template>
   </xsl:if>
 </xsl:template>
```

```
<xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
       <xsl:value-of select="$isc.copyright.breakline"/>
  <xsl:text>&#10;</xsl:text>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
   </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

<!--
- Local variables:
- mode: sgml
- End:
-->
```

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1.226 snowball-stemmer 0+svn585-2

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Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language
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1.229 brotli 1.0.7-6ubuntu0.1

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1.230 perl 5.30.0-9ubuntu0.2

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```
# $Id: errnolist.a,v 3.0 1993/08/18 12:04:35 ram Exp ram $
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#
# Original Author: Harlan Stenn <harlan@mumps.pfcs.com>
#
# $Log: errnolist.a,v $
# Revision 3.0  1993/08/18 12:04:35  ram
# Baseline for dist 3.0 netwide release.
#
#
# This is a simple-minded awk script to generate an initialization for
# sys_errnolist on systems that don't have it.
# This file now depends only on sys/errno.h error numbers under maxerr being
# in order.  It will complain and die if not.  NOTE: It will still produce
# a compilable output file, even with errors, so you must check the output.
```

1.231 cifs-utils 6.9-1ubuntu0.1

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1.234 liblwp-protocol-https-perl 6.07-2ubuntu2

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```
---
abstract: 'Provide https support for LWP::UserAgent'
author:
 - 'Gisle Aas <gisle@activestate.com>'
build_requires:
 Test::More: '0'
 Test::RequiresInternet: '0'
configure_requires:
 ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150005'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: LWP-Protocol-https
no_index:
 directory:
   - t
   - inc
requires:
 IO::Socket::SSL: '1.54'
 LWP::UserAgent: '6.06'
 Mozilla::CA: '20110101'
 Net::HTTPS: '6'
 perl: '5.008001'
resources:
 MailingList: mailto:libwww@perl.org
 repository: http://github.com/libwww-perl/lwp-protocol-https
version: '6.07'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /liblwp-protocol-https-perl-6-07-orig-1-tar-gz/LWP-Protocol-https-6.07/META.yml
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##############################################################################
  LWP::Protocol::https 6.06
##############################################################################

NAME
  LWP::Protocol::https - Provide https support for LWP::UserAgent

SYNOPSIS
    use LWP::UserAgent;
```

```
    $ua = LWP::UserAgent->new(ssl_opts => { verify_hostname => 1 });
    $res = $ua->get("https://www.example.com");
```

DESCRIPTION

The LWP::Protocol::https module provides support for using https schemed URLs with LWP. This module is a plug-in to the LWP protocol handling, so you don't use it directly. Once the module is installed LWP is able to access sites using HTTP over SSL/TLS.

If hostname verification is requested by LWP::UserAgent's "ssl_opts", and neither "SSL_ca_file" nor "SSL_ca_path" is set, then "SSL_ca_file" is implied to be the one provided by Mozilla::CA. If the Mozilla::CA module isn't available
SSL requests will fail. Either install this module, set up an alternative "SSL_ca_file" or disable hostname verification.

This module used to be bundled with the libwww-perl, but it was unbundled in v6.02 in order to be able to declare its dependencies properly for the CPAN tool-chain. Applications that need https support can just declare their dependency on LWP::Protocol::https and will no longer need to know what underlying modules to install.

SEE ALSO

IO::Socket::SSL, Crypt::SSLeay, Mozilla::CA

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=head1 NAME

LWP::Protocol::https - Provide https support for LWP::UserAgent

=head1 SYNOPSIS

```
 use LWP::UserAgent;

 $ua = LWP::UserAgent->new(ssl_opts => { verify_hostname => 1 });
 $res = $ua->get("https://www.example.com");
```

```
 # specify a CA path
 $ua = LWP::UserAgent->new(
     ssl_opts => {
         SSL_ca_path     => '/etc/ssl/certs',
         verify_hostname => 1,
     }
 );
```

=head1 DESCRIPTION

The LWP::Protocol::https module provides support for using https schemed URLs with LWP. This module is a plug-in to the LWP protocol handling, so you don't use it directly. Once the module is installed LWP is able to access sites using HTTP over SSL/TLS.

If hostname verification is requested by LWP::UserAgent's C<ssl_opts>, and neither C<SSL_ca_file> nor C<SSL_ca_path> is set, then C<SSL_ca_file> is implied to be the one provided by Mozilla::CA. If the Mozilla::CA module isn't available SSL requests will fail. Either install this module, set up an alternative C<SSL_ca_file> or disable hostname verification.

This module used to be bundled with the libwww-perl, but it was unbundled in v6.02 in order to be able to declare its dependencies properly for the CPAN tool-chain. Applications that need https support can just declare their dependency on LWP::Protocol::https and will no longer need to know what underlying modules to install.

=head1 SEE ALSO

L<IO::Socket::SSL>, L<Crypt::SSLeay>, L<Mozilla::CA>

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1.235 libndp 1.7-0ubuntu1

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Version 2.1, February 1999

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1.236 cryptsetup 2.2.2-3ubuntu2.3

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src/bdf/bdfdrivr.c
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src/gzip/zconf.h
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1.238 pyjwt 1.7.1

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1.239 idna 2.8

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* /kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/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 IDNA 2008, can generate materially different results to the
previous standard. The library can act as a drop-in replacement for
the "encodings.idna" module.
"""

import io, sys
from setuptools import setup


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',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 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',
     ],
     'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
```

```
        'test_suite': 'tests',
    }

    setup(**arguments)

if __name__ == '__main__':
    main()
```

Found in path(s):
* /kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/setup.py

1.240 appdirs 1.4.3

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```

1.241 jsonpointer 2.0

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1.242 pyasn1 0.4.8

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Metadata-Version: 1.2
Name: pyasn1
Version: 0.4.8
Summary: ASN.1 types and codecs
Home-page: https://github.com/etingof/pyasn1
Author: Ilya Etingof
Author-email: etingof@gmail.com
Maintainer: Ilya Etingof <etingof@gmail.com>
License: BSD
Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
Classifier: Intended Audience :: Information Technology
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1.243 oauthlib 3.1.0

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1.244 toml 0.10.0

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1.245 configobj 5.0.6

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Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: ConfigObj
Upstream-Contact: Michael Foord <fuzzyman@voidspace.org.uk>
Source: http://www.voidspace.org.uk/python/configobj.html

Files: *
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1.246 async-timeout 3.0.1

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1.247 pyserial 3.4

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1.248 pyhamcrest 1.9.0

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1.249 constantly 15.1.0

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1.250 packaging 19.2

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1.251 incremental 16.10.1

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ASN.1 library for Python

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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 3.6

* 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
prompt. 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:
id=123
room=321
>>>
```

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.python.org/pypi/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](http://stackoverflow.com/questions/ask)
or try browsing pyasn1
[mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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ASN.1 library for Python
==========

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Abstract Syntax Notation One (`ASN.1
<http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>`_) 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.python.org/pypi/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/protocol-buffers/>`_
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::
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  /pyasn1/contents

Use case

.. toctree::
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  /example-use-case

Download & Install

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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.

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/changelog

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Getting help

Please, file your `issues <https://github.com/etingof/pyasn1/issues>`_
and `PRs <https://github.com/etingof/pyasn1/pulls>`_ at GitHub.
Alternatively, you could ask for help at
`Stack Overflow <http://stackoverflow.com/questions/tagged/pyasn1>`_
or search
`pyasn1-users <https://lists.sourceforge.net/lists/listinfo/pyasn1-users>`_
mailing list archive.

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
* `ASN.1 Complete <http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>`_ by Prof John Larmouth

Here you can get the official standards which is hard to read:

* `ITU
standards <http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>`_

On the other end of the readability spectrum, here is a quick and sweet write up:

* `A Layman's Guide to a Subset of ASN.1, BER, and DER <ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>`_

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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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

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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.

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

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:

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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.

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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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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.

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In

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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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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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1.259 gopacket 1.1.19

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1.261 json-c 0.99.8-2

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1.262 tar 1.30+dfsg-7ubuntu0.20.04.1

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1.263 cron 3.0pl1-136ubuntu1

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* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/pathnames.h
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*

/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/misc.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/config.h
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/job.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/database.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/env.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.h
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/user.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/compat.c
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.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
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* @(#)bitstring.h 5.2
 (Berkeley) 4/4/90
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.\" @(#)bitstring.3 5.1
 (Berkeley) 12/13/89
.\"

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.\"
.\" $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
.\"

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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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Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]

[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta
 was December 9, 1988]
[V1.0 was May 6, 1987]
Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It
is functionally based on the SysV cron, which means that each user can have
their own crontab file (all crontab files are stored in a read-protected
directory, usually /var/cron/tabs). No direct support is provided for
'at'; you can continue to run 'atrun' from the crontab as you have been
doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files
"allow" and "deny" in /var/cron can be used to control access to the
"crontab" command (which installs crontabs). It hasn't been tested on
SysV, although some effort has gone into making the port an easy one.

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll
have to go edit a couple of files... So, here's the checklist:

 Read all the FEATURES, INSTALL, and CONVERSION files
 Edit config.h
 Edit Makefile
  (both of these files have instructions inside; note that
   some things in config.h are definable in Makefile and are
   therefore surrounded by #ifndef...#endif)
 'make'
 'su' and 'make install'
  (you may have to install the man pages by hand)
 kill your existing cron process
  (actually you can run your existing cron if you want, but why?)
 build new crontabs using /usr/lib/{crontab,crontab.local}
  (either put them all in "root"'s crontab, or divide it up
   and rip out all the 'su' commands, collapse the lengthy
   lists into
 ranges with steps -- basically, this step is
   as much work as you want to make it)
 start up the new cron

(must be done as root)
watch it. test it with 'crontab -r' and watch the daemon track your
changes.
if you like it, change your /etc/{rc,rc.local} to use it instead of
the old one.

$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp $

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1.265 diffutils 3.7-3

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1.269 libcroco 0.6.13-1

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
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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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1.270 lupin 0.57build1

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1.276 mime-support 3.64ubuntu1

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convey the exclusion of warranty; and each file should have at least the ``copyright'' line and a pointer to where the full notice is found.

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@var{one line to give the library's name and an idea of what it does.}
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@end
 smallexample

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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

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@end enumerate

@iftex
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@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS

@end ifinfo

@page
@heading Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

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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
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and a brief idea of what it does.}
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when it starts in an interactive mode:

@smallexample
Gnomovision version
 69, Copyright (C) @var{year} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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under certain conditions; type `show c' for details.
@end smallexample

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@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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section 10
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1.280 distro-info 0.23ubuntu1

1.280.1 Available under license :

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1.281 shared-mime-info 1.15-1

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1.282 libtext-iconv-perl 1.7-7

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Text::Iconv Version 1.6

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Description

This module provides a Perl interface to the iconv() codeset
conversion function, as defined by the Single UNIX Specification. For
more details see the POD documentation embedded in the file Iconv.pm,
which will also be installed as Text::Iconv(3) man page.

Prerequisites

Your system should be compliant with the Single UNIX Specification or
at least provide iconv_open(), iconv() and iconv_close() functions
compliant with it.

Note that the possible conversions and the quality of the conversions
depend on the available iconv conversion tables and algorithms, which
are in most cases supplied by the operating system vendor. Some
systems also allow you to build your own tables (e.g., HP-UX,
 Tru64
UNIX, and AIX provide the genxlt(1) command).

It is also possible to use a separate iconv library such as GNU
libiconv package, just make sure that the desired library is found
(see <http://www.gnu.org/directory/localization/libiconv.html>).

Building the module

Since the Single UNIX Specification only specifies an interface,
several issues are left to the implementation to define, namely:

1. The supported codesets
2. The supported conversions
3. The names for the supported codesets

Please check your system documentation for the above points.

The module can be built using this sequence of commands:

```
perl Makefile.PL
make
make test
```

On some systems, the iconv functions are in libc; on others (and when
you want to use a separate iconv library, such as GNU libiconv), you
have to link with -liconv. Makefile.PL tries to automatically detect
this. However, if your iconv library is in a non-standard path, you
might have to help it.
You can specify library and include paths like
this:

```
perl Makefile.PL LIBS='-L/path/to/lib' INC='-I/path/to/include
```

You might also have to do this if you have multiple iconv
implementations installed and want to use a specific one.

The purpose of the test scripts (run by "make test") is to check if an
iconv library can be found, and if the iconv functions can be called.
It is neither intended to find out which conversions are supported,
nor to test the quality of the conversions provided by your iconv
library. However, since the iconv functions can only be tested by
calling them, which in turn requires the specification of codesets to
be converted. The test scripts try some conversions which seem to be
widely supported. Conversions not supported by your iconv
implementation are skipped, but for the purpose outlined above this is
no problem, as it shows that the iconv functions are working. There
is no standard way to find out which conversions are supported by an
implementation.
This is also the reason why Text::Iconv can't provide
platform-independent support for codeset identifiers (even if it it
would be nice to have).

Installation
---

make install

Feedback

Text::Iconv was tested on various platforms and with different iconv
implementations.

If you built Text::Iconv on a platform where you needed to specify
additional libraries, or where none of the codeset identifiers in the
test scripts are supported, please drop me a note.

Thanks

Thanks go to all those who reported bugs and suggested features.

Michael Piotrowski <mxp@dynalabs.de>

Found in path(s):
* /libtext-iconv-perl-1-7-orig-2-tar-bz2/Text-Iconv-1.7/README

1.283 libtext-charwidth-perl 0.04-10

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1.284 lmdb 0.9.24-1

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1.285 netifaces 0.10.4-1ubuntu4

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1.286 bsdmainutils 11.1.2ubuntu3

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This package was originally put together by Austin Donnelly
<and1000@debian.org>, but is heavily based on bsdutils, originally put
together by Ian Murdock <imurdock@gnu.ai.mit.edu>. Please report any
problems or suggested additions or changes to Austin Donnelly.

Then the package has been maintained by Charles Briscoe-Smith
<cpbs@debian.org>. I gathered data for the 1999-2001 calendar files
from various sources on the Internet, and I'd also like to thank Oliver
Elphick, Julian Gilbey, Daniel Martin and Jaldhar H. Vyas for providing
much useful data on the various religous calendars. I have edited the
files they provided to fit calendar's requirements, so any errors should
be attributed to me.

After cpbs@debian.org, Marco d'Itri <md@linux.it> maintained
it for
almost two years, before Tollef Fog Heen <tfheen@debian.org> took over.
The package is now maintained by Graham Wilson <bob@decoy.wox.org>.

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1.287 dbus-python 1.2.16-1build1

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1.289 netbase 6.1

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100dpi-lutRS08-IL2.bdf 100dpi-lutRS14-IL2.bdf 100dpi-lutRS14.bdf
100dpi-lutRS19-IL2.bdf 75dpi-lutBS12.bdf 75dpi-lutBS12c.bdf
75dpi-lutBS12-IL2.bdf 75dpi-lutBS14.bdf 75dpi-lutBS14c.bdf
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1.293 kerberos 1.17-6ubuntu4.1

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1.297 ssh-import-id 5.10-0ubuntu1

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1.298 lsb 11.1.0ubuntu2

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1.303 sysv-init 2.96-2.1ubuntu1

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1.304 openssl 1.1.1f

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc

Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Jover, Guillem
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.

McLaughlin, Tom
Makey, Jeff
Mallayya, Sangamesh
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Mller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Pasteleurs, Frederic
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Snchez, Wilfredo
Sanders, Miguel
Sasaki, Kan
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno

Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Spradling, Michael
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blttermann, Mario
Bogusz, Jakub
Buo-ren, Lin

Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez,
Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frdric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frdric
Margeviius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Puente, Enol
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer

1.309 libmspack 0.10.1-2

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1.310 go-yaml 2.3.0

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1.311 json-glib 1.4.4-2ubuntu2

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SCRIP
Sendmail
SISSL
Sleepycat
SLIB
SNIA
SPL
STIX
TCL
Teeworlds
Threeparttable
TMate
TORQUEv1.1
TOSL
TPL
UCD
Vim
VNLSL
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1.318 libproxy 0.4.15-10ubuntu1.2

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1.321 sg3-utils 1.44-1ubuntu2

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Douglas Gilbert
10th April 2012

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1.322 pyrsistent 0.15.5-1build1

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b) Use a suitable shared library mechanism for linking with the
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1.328 python-systemd 234-3build2

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1.329 jinja2 2.10.1-2

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1.334 harfbuzz 2.6.4

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1.335 libhtml-parser-perl 3.72-5

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```
=head1 NAME

HTML::Parser - HTML parser class

=head1 SYNOPSIS

use HTML::Parser ();

# Create parser object
$p = HTML::Parser->new( api_version => 3,
                        start_h => [\&start, "tagname, attr"],
                        end_h   => [\&end,   "tagname"],
                        marked_sections => 1,
                      );

# Parse document text chunk by chunk
$p->parse($chunk1);
$p->parse($chunk2);
#...
$p->eof;                # signal end of document

# Parse directly from file
$p->parse_file("foo.html");
# or
open(my $fh, "<:utf8", "foo.html") || die;
$p->parse_file($fh);

=head1 DESCRIPTION
```

Objects of the C<HTML::Parser> class will recognize markup and
separate it from plain text (alias data content) in HTML
documents. As different kinds of markup and text are recognized, the
corresponding event handlers are invoked.

C<HTML::Parser> is not a generic SGML parser. We have tried
 to
make it able to deal with the HTML that is actually "out there", and
it normally parses as closely as possible to the way the popular web
browsers do it instead of strictly following one of the many HTML
specifications from W3C. Where there is disagreement, there is often
an option that you can enable to get the official behaviour.

The document to be parsed may be supplied in arbitrary chunks. This
makes on-the-fly parsing as documents are received from the network
possible.

If event driven parsing does not feel right for your application, you
might want to use C<HTML::PullParser>. This is an C<HTML::Parser>
subclass that allows a more conventional program structure.

=head1 METHODS

The following method is used to construct a new C<HTML::Parser> object:

=over

=item $p = HTML::Parser->new(%options_and_handlers)

This class method creates a new C<HTML::Parser> object and
returns it. Key/value argument pairs may be provided to assign event
handlers or initialize parser options.
  The handlers and parser
options can also be set or modified later by the method calls described below.

If a top level key is in the form "<event>_h" (e.g., "text_h") then it
assigns a handler to that event, otherwise it initializes a parser
option. The event handler specification value must be an array
reference. Multiple handlers may also be assigned with the 'handlers
=> [%handlers]' option. See examples below.

If new() is called without any arguments, it will create a parser that
uses callback methods compatible with version 2 of C<HTML::Parser>.
See the section on "version 2 compatibility" below for details.

The special constructor option 'api_version => 2' can be used to
initialize version 2 callbacks while still setting other options and

handlers. The 'api_version => 3' option can be used if you don't want
to set any options and don't want to fall back to v2 compatible
mode.

Examples:

```
$p = HTML::Parser->new(api_version => 3,
                       text_h => [ sub
 {...}, "dtext" ]);
```

This creates a new parser object with a text event handler subroutine
that receives the original text with general entities decoded.

```
$p = HTML::Parser->new(api_version => 3,
   start_h => [ 'my_start', "self,tokens" ]);
```

This creates a new parser object with a start event handler method
that receives the $p and the tokens array.

```
$p = HTML::Parser->new(api_version => 3,
         handlers => { text => [\@array, "event,text"],
                                 comment => [\@array, "event,text"],
                               });
```

This creates a new parser object that stores the event type and the
original text in @array for text and comment events.

=back

The following methods feed the HTML document
to the C<HTML::Parser> object:

=over

=item $p->parse($string)

Parse $string as the next chunk of the HTML document. Handlers invoked should
not attempt to modify the $string in-place until $p->parse returns.

If an invoked event handler aborts parsing
 by calling $p->eof, then $p->parse()
will return a FALSE value. Otherwise the return value is a reference to the
parser object ($p).

=item $p->parse($code_ref)

If a code reference is passed as the argument to be parsed, then the
chunks to be parsed are obtained by invoking this function repeatedly.

Parsing continues until the function returns an empty (or undefined)
result. When this happens $p->eof is automatically signaled.

Parsing will also abort if one of the event handlers calls $p->eof.

The effect of this is the same as:

```
while (1) {
  my $chunk = &$code_ref();
  if (!defined($chunk) || !length($chunk)) {
     $p->eof;
     return $p;
  }
  $p->parse($chunk) || return undef;
}
```

But it is more efficient as this loop runs internally in XS code.

=item $p->parse_file($file)

Parse text directly from a file. The $file argument can be a
filename, an open file handle, or a reference to an open file
handle.

If $file contains a filename and the file can't be
 opened, then the
method returns an undefined value and $! tells why it failed.
Otherwise the return value is a reference to the parser object.

If a file handle is passed as the $file argument, then the file will
normally be read until EOF, but not closed.

If an invoked event handler aborts parsing by calling $p->eof,
then $p->parse_file() may not have read the entire file.

On systems with multi-byte line terminators, the values passed for the
offset and length argspecs may be too low if parse_file() is called on
a file handle that is not in binary mode.

If a filename is passed in, then parse_file() will open the file in
binary mode.

=item $p->eof

Signals the end of the HTML document. Calling the $p->eof method
outside a handler callback will flush any remaining buffered text
(which triggers the C<text> event if there is any remaining text).

Calling $p->eof inside a handler will terminate parsing at that point and cause $p->parse to return a FALSE value. This also terminates parsing
by $p->parse_file().

After $p->eof has been called, the parse() and parse_file() methods can be invoked to feed new documents with the parser object.

The return value from eof() is a reference to the parser object.

=back

Most parser options are controlled by boolean attributes.
Each boolean attribute is enabled by calling the corresponding method with a TRUE argument and disabled with a FALSE argument. The attribute value is left unchanged if no argument is given. The return value from each method is the old attribute value.

Methods that can be used to get and/or set parser options are:

=over

=item $p->attr_encoded

=item $p->attr_encoded($bool)

By default, the C<attr> and C<@attr> argspecs will have general entities for attribute values decoded. Enabling this attribute leaves entities alone.

=item $p->backquote

=item $p->backquote($bool)

By default, only ' and " are recognized as quote characters around attribute values. MSIE also recognizes backquotes for some
reason.
Enabling this attribute provides compatibility with this behaviour.

=item $p->boolean_attribute_value($val)

This method sets the value reported for boolean attributes inside HTML start tags. By default, the name of the attribute is also used as its value. This affects the values reported for C<tokens> and C<attr> argspecs.

=item $p->case_sensitive

=item $p->case_sensitive($bool)

By default, tagnames and attribute names are down-cased. Enabling this attribute leaves them as found in the HTML source document.

=item $p->closing_plaintext

=item $p->closing_plaintext($bool)

By default, "plaintext" element can never be closed. Everything up to the end of the document is parsed in CDATA mode. This historical behaviour is what at least MSIE does. Enabling this attribute makes closing "</plaintext>" tag effective and the parsing process will resume after seeing this tag. This emulates early gecko-based browsers.

=item $p->empty_element_tags

=item $p->empty_element_tags(
$bool)

By default, empty element tags are not recognized as such and the "/" before ">" is just treated like a normal name character (unless C<strict_names> is enabled). Enabling this attribute make C<HTML::Parser> recognize these tags.

Empty element tags look like start tags, but end with the character sequence "/>" instead of ">". When recognized by C<HTML::Parser> they cause an artificial end event in addition to the start event. The C<text> for the artificial end event will be empty and the C<tokenpos> array will be undefined even though the token array will have one element containing the tag name.

=item $p->marked_sections

=item $p->marked_sections($bool)

By default, section markings like <![CDATA[...]]> are treated like ordinary text. When this attribute is enabled section markings are honoured.

There are currently no events associated with the marked section markup, but the text can be returned as C<skipped_text>.

=item $p->strict_comment

=item $p->strict_comment(

$bool)

By default, comments are terminated by the first occurrence of "-->".
This is the behaviour of most popular browsers (like Mozilla, Opera and
MSIE), but it is not correct according to the official HTML
standard. Officially, you need an even number of "--" tokens before
the closing ">" is recognized and there may not be anything but
whitespace between an even and an odd "--".

The official behaviour is enabled by enabling this attribute.

Enabling of 'strict_comment' also disables recognizing these forms as
comments:

</ comment>
<! comment>

=item $p->strict_end

=item $p->strict_end($bool)

By default, attributes and other junk are allowed to be present on end tags in a
manner that emulates MSIE's behaviour.

The official behaviour is enabled with this attribute. If enabled,
only whitespace is allowed between the tagname and the final ">".

=item $p->strict_names

=item $p->strict_names($bool)

By default, almost anything is allowed in tag and attribute
names.
This is the behaviour of most popular browsers and allows us to parse
some broken tags with invalid attribute values like:

<IMG SRC=newprevlstGr.gif ALT=[PREV LIST] BORDER=0>

By default, "LIST]" is parsed as a boolean attribute, not as
part of the ALT value as was clearly intended. This is also what
Mozilla sees.

The official behaviour is enabled by enabling this attribute. If
enabled, it will cause the tag above to be reported as text
since "LIST]" is not a legal attribute name.

=item $p->unbroken_text

=item $p->unbroken_text($bool)

By default, blocks of text are given to the text handler as soon as
possible (but the parser takes care always to break text at a
boundary between whitespace and non-whitespace so single words and
entities can always be decoded safely). This might create breaks that
make it hard to do transformations on the text. When this attribute is
enabled, blocks of text are always reported in one piece. This will
delay the text event until the
 following (non-text) event has been
recognized by the parser.

Note that the C<offset> argspec will give you the offset of the first
segment of text and C<length> is the combined length of the segments.
Since there might be ignored tags in between, these numbers can't be
used to directly index in the original document file.

=item $p->utf8_mode

=item $p->utf8_mode($bool)

Enable this option when parsing raw undecoded UTF-8. This tells the
parser that the entities expanded for strings reported by C<attr>,
C<@attr> and C<dtext> should be expanded as decoded UTF-8 so they end
up compatible with the surrounding text.

If C<utf8_mode> is enabled then it is an error to pass strings
containing characters with code above 255 to the parse() method, and
the parse() method will croak if you try.

Example: The Unicode character "\x{2665}" is "\xE2\x99\xA5" when UTF-8
encoded. The character can also be represented by the entity
"♥" or "&#x2665". If we feed the parser:

 $p->parse("\xE2\x99\xA5♥");

then
 C<dtext> will be reported as "\xE2\x99\xA5\x{2665}" without
C<utf8_mode> enabled, but as "\xE2\x99\xA5\xE2\x99\xA5" when enabled.
The later string is what you want.

This option is only available with perl-5.8 or better.

=item $p->xml_mode

=item $p->xml_mode($bool)

Enabling this attribute changes the parser to allow some XML
constructs. This enables the behaviour controlled by individually by
the C<case_sensitive>, C<empty_element_tags>, C<strict_names> and
C<xml_pic> attributes and also suppresses special treatment of
elements that are parsed as CDATA for HTML.

=item $p->xml_pic

=item $p->xml_pic($bool)

By default, I<processing instructions> are terminated by ">". When
this attribute is enabled, processing instructions are terminated by
"?>" instead.

=back

As markup and text is recognized, handlers are invoked. The following
method is used to set up handlers for different events:

=over

=item $p->handler(event => \&subroutine, $argspec)

=item
 $p->handler(event => $method_name, $argspec)

=item $p->handler(event => \@accum, $argspec)

=item $p->handler(event => "");

=item $p->handler(event => undef);

=item $p->handler(event);

This method assigns a subroutine, method, or array to handle an event.

Event is one of C<text>, C<start>, C<end>, C<declaration>, C<comment>,
C<process>, C<start_document>, C<end_document> or C<default>.

The C<\&subroutine> is a reference to a subroutine which is called to handle
the event.

The C<$method_name> is the name of a method of $p which is called to handle
the event.

The C<@accum> is an array that will hold the event information as
sub-arrays.

If the second argument is "", the event is ignored.
If it is undef, the default handler is invoked for the event.

The C<$argspec> is a string that describes the information to be reported
for the event. Any requested information that does not apply to a
specific event is passed as C<undef>. If argspec is omitted, then it
is left unchanged.

The
 return value from $p->handler is the old callback routine or a
reference to the accumulator array.

Any return values from handler callback routines/methods are always
ignored. A handler callback can request parsing to be aborted by
invoking the $p->eof method. A handler callback is not allowed to
invoke the $p->parse() or $p->parse_file() method. An exception will
be raised if it tries.

Examples:

```
  $p->handler(start =>  "start", 'self, attr, attrseq, text' );
```

This causes the "start" method of object $p to be called for 'start' events.
The callback signature is $p->start(\%attr, \@attr_seq, $text).

```
  $p->handler(start =>  \&start, 'attr, attrseq, text' );
```

This causes subroutine start() to be called for 'start' events.
The callback signature is start(\%attr, \@attr_seq, $text).

```
  $p->handler(start =>  \@accum, "'S", attr, attrseq, text' );
```

This causes 'start' event information to be saved in @accum.
The array elements will be ['S', \%attr, \@attr_seq, $text].

```
  $p->handler(start => "");
```

This causes 'start' events to be ignored. It also suppresses
invocations of any default handler for start events. It is in most
cases equivalent to $p->handler(start => sub {}), but is more
efficient. It is different from the empty-sub-handler in that
C<skipped_text> is not reset by it.

```
 $p->handler(start => undef);
```

This causes no handler to be associated with start events.
If there is a default handler it will be invoked.

=back

Filters based on tags can be set up to limit the number of events reported. The main bottleneck during parsing is often the huge number of callbacks made from the parser. Applying filters can improve performance significantly.

The following methods control filters:

=over

=item $p->ignore_elements(@tags)

Both the C<start> event and the C<end> event as well as any events that would be reported in between are suppressed. The ignored elements can contain nested occurrences of itself. Example:

```
  $p->ignore_elements(qw(script
 style));
```

The C<script> and C<style> tags will always nest properly since their content is parsed in CDATA mode. For most other tags C<ignore_elements> must be used with caution since HTML is often not I<well formed>.

=item $p->ignore_tags(@tags)

Any C<start> and C<end> events involving any of the tags given are suppressed. To reset the filter (i.e. don't suppress any C<start> and C<end> events), call C<ignore_tags> without an argument.

=item $p->report_tags(@tags)

Any C<start> and C<end> events involving any of the tags I<not> given are suppressed. To reset the filter (i.e. report all C<start> and C<end> events), call C<report_tags> without an argument.

=back

Internally, the system has two filter lists, one for C<report_tags> and one for C<ignore_tags>, and both filters are applied. This effectively gives C<ignore_tags> precedence over C<report_tags>.

Examples:

```
  $p->ignore_tags(qw(style));
  $p->report_tags(qw(script style));
```

results in only C<script>
 events being reported.

=head2 Argspec

Argspec is a string containing a comma-separated list that describes
the information reported by the event. The following argspec
identifier names can be used:

=over

=item C<attr>

Attr causes a reference to a hash of attribute name/value pairs to be
passed.

Boolean attributes' values are either the value set by
$p->boolean_attribute_value, or the attribute name if no value has been
set by $p->boolean_attribute_value.

This passes undef except for C<start> events.

Unless C<xml_mode> or C<case_sensitive> is enabled, the attribute
names are forced to lower case.

General entities are decoded in the attribute values and
one layer of matching quotes enclosing the attribute values is removed.

The Unicode character set is assumed for entity decoding.

=item C<@attr>

Basically the same as C<attr>, but keys and values are passed as
individual arguments and the original sequence of the attributes is
kept. The parameters passed will be the same as
 the @attr calculated
here:

  @attr = map { $_ => $attr->{$_} } @$attrseq;

assuming $attr and $attrseq here are the hash and array passed as the
result of C<attr> and C<attrseq> argspecs.

This passes no values for events besides C<start>.

=item C<attrseq>

Attrseq causes a reference to an array of attribute names to be

passed. This can be useful if you want to walk the C<attr> hash in
the original sequence.

This passes undef except for C<start> events.

Unless C<xml_mode> or C<case_sensitive> is enabled, the attribute
names are forced to lower case.

=item C<column>

Column causes the column number of the start of the event to be passed.
The first column on a line is 0.

=item C<dtext>

Dtext causes the decoded text to be passed. General entities are
automatically decoded unless the event was inside a CDATA section or
was between literal start and end tags (C<script>, C<style>,
C<xmp>, C<iframe>, C<title>, C<textarea> and C<plaintext>).

The Unicode character set is assumed for
 entity decoding. With Perl
version 5.6 or earlier only the Latin-1 range is supported, and
entities for characters outside the range 0..255 are left unchanged.

This passes undef except for C<text> events.

=item C<event>

Event causes the event name to be passed.

The event name is one of C<text>, C<start>, C<end>, C<declaration>,
C<comment>, C<process>, C<start_document> or C<end_document>.

=item C<is_cdata>

Is_cdata causes a TRUE value to be passed if the event is inside a CDATA
section or between literal start and end tags (C<script>,
C<style>, C<xmp>, C<iframe>, C<title>, C<textarea> and C<plaintext>).

if the flag is FALSE for a text event, then you should normally
either use C<dtext> or decode the entities yourself before the text is
processed further.

=item C<length>

Length causes the number of bytes of the source text of the event to
be passed.

=item C<line>

Line causes the line number of the start of the event to be passed.
The first line in the document is 1. Line counting
 doesn't start
until at least one handler requests this value to be reported.

=item C<offset>

Offset causes the byte position in the HTML document of the start of
the event to be passed. The first byte in the document has offset 0.

=item C<offset_end>

Offset_end causes the byte position in the HTML document of the end of
the event to be passed. This is the same as C<offset> + C<length>.

=item C<self>

Self causes the current object to be passed to the handler. If the
handler is a method, this must be the first element in the argspec.

An alternative to passing self as an argspec is to register closures
that capture $self by themselves as handlers. Unfortunately this
creates circular references which prevent the HTML::Parser object
from being garbage collected. Using the C<self> argspec avoids this
problem.

=item C<skipped_text>

Skipped_text returns the concatenated text of all the events that have
been skipped since the last time an event was reported. Events might
be
 skipped because no handler is registered for them or because some
filter applies. Skipped text also includes marked section markup,
since there are no events that can catch it.

If an C<"">-handler is registered for an event, then the text for this
event is not included in C<skipped_text>. Skipped text both before
and after the C<"">-event is included in the next reported
C<skipped_text>.

=item C<tag>

Same as C<tagname>, but prefixed with "/" if it belongs to an C<end>
event and "!" for a declaration. The C<tag> does not have any prefix
for C<start> events, and is in this case identical to C<tagname>.

=item C<tagname>

This is the element name (or I<generic identifier> in SGML jargon) for
start and end tags. Since HTML is case insensitive, this name is
forced to lower case to ease string matching.

Since XML is case sensitive, the tagname case is not changed when
C<xml_mode> is enabled. The same happens if the C<case_sensitive> attribute
is set.

The declaration type of declaration
 elements is also passed as a tagname,
even if that is a bit strange.
In fact, in the current implementation tagname is
identical to C<token0> except that the name may be forced to lower case.

=item C<token0>

Token0 causes the original text of the first token string to be
passed. This should always be the same as $tokens->[0].

For C<declaration> events, this is the declaration type.

For C<start> and C<end> events, this is the tag name.

For C<process> and non-strict C<comment> events, this is everything
inside the tag.

This passes undef if there are no tokens in the event.

=item C<tokenpos>

Tokenpos causes a reference to an array of token positions to be
passed. For each string that appears in C<tokens>, this array
contains two numbers. The first number is the offset of the start of
the token in the original C<text> and the second number is the length
of the token.

Boolean attributes in a C<start> event will have (0,0) for the
attribute value offset and length.

This
 passes undef if there are no tokens in the event (e.g., C<text>)
and for artificial C<end> events triggered by empty element tags.

If you are using these offsets and lengths to modify C<text>, you
should either work from right to left, or be very careful to calculate

the changes to the offsets.

=item C<tokens>

Tokens causes a reference to an array of token strings to be passed.
The strings are exactly as they were found in the original text,
no decoding or case changes are applied.

For C<declaration> events, the array contains each word, comment, and
delimited string starting with the declaration type.

For C<comment> events, this contains each sub-comment. If
$p->strict_comments is disabled, there will be only one sub-comment.

For C<start> events, this contains the original tag name followed by
the attribute name/value pairs. The values of boolean attributes will
be either the value set by $p->boolean_attribute_value, or the
attribute name if no value has been set by
$p->boolean_attribute_value.

For
C<end> events, this contains the original tag name (always one token).

For C<process> events, this contains the process instructions (always one
token).

This passes C<undef> for C<text> events.

=item C<text>

Text causes the source text (including markup element delimiters) to be
passed.

=item C<undef>

Pass an undefined value. Useful as padding where the same handler
routine is registered for multiple events.

=item C<'...'>

A literal string of 0 to 255 characters enclosed
in single (') or double (") quotes is passed as entered.

=back

The whole argspec string can be wrapped up in C<'@{...}'> to signal
that the resulting event array should be flattened. This only makes a
difference if an array reference is used as the handler target.

Consider this example:

```
  $p->handler(text => [], 'text');
  $p->handler(text => [], '@{text}']);
```

With two text events; C<"foo">, C<"bar">; then the first example will end
up with [["foo"], ["bar"]] and the second with ["foo",
 "bar"] in
the handler target array.

=head2 Events

Handlers for the following events can be registered:

=over

=item C<comment>

This event is triggered when a markup comment is recognized.

Example:

```
 <!-- This is a comment -- -- So is this -->
```

=item C<declaration>

This event is triggered when a I<markup declaration> is recognized.

For typical HTML documents, the only declaration you are
likely to find is <!DOCTYPE ...>.

Example:

```
 <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"
    "http://www.w3.org/TR/html4/strict.dtd">
```

DTDs inside <!DOCTYPE ...> will confuse HTML::Parser.

=item C<default>

This event is triggered for events that do not have a specific
handler. You can set up a handler for this event to catch stuff you
did not want to catch explicitly.

=item C<end>

This event is triggered when an end tag is recognized.

Example:

</A>

=item C<end_document>

This event is triggered when $p->eof is called and after any remaining
text is flushed. There is
no document text associated with this event.

=item C<process>

This event is triggered when a processing instructions markup is
recognized.

The format and content of processing instructions are system and
application dependent.

Examples:

<? HTML processing instructions >
<? XML processing instructions ?>

=item C<start>

This event is triggered when a start tag is recognized.

Example:

<A HREF="http://www.perl.com/">

=item C<start_document>

This event is triggered before any other events for a new document. A
handler for it can be used to initialize stuff. There is no document
text associated with this event.

=item C<text>

This event is triggered when plain text (characters) is recognized.
The text may contain multiple lines. A sequence of text may be broken
between several text events unless $p->unbroken_text is enabled.

The parser will make sure that it does not break a word or a sequence
of whitespace between two text events.

=back

=head2 Unicode

C<HTML::Parser>
 can parse Unicode strings when running under
perl-5.8 or better. If Unicode is passed to $p->parse() then chunks
of Unicode will be reported to the handlers. The offset and length
argspecs will also report their position in terms of characters.

It is safe to parse raw undecoded UTF-8 if you either avoid decoding
entities and make sure to not use I<argspecs> that do, or enable the
C<utf8_mode> for the parser. Parsing of undecoded UTF-8 might be
useful when parsing from a file where you need the reported offsets
and lengths to match the byte offsets in the file.

If a filename is passed to $p->parse_file() then the file will be read
in binary mode. This will be fine if the file contains only ASCII or
Latin-1 characters. If the file contains UTF-8 encoded text then care
must be taken when decoding entities as described in the previous
paragraph, but better is to open the file with the UTF-8 layer so that
it is decoded properly:

```
 open(my $fh, "<:utf8", "index.html") || die "...:
$!";
 $p->parse_file($fh);
```

If the file contains text encoded in a charset besides ASCII, Latin-1
or UTF-8 then decoding will always be needed.

=head1 VERSION 2 COMPATIBILITY

When an C<HTML::Parser> object is constructed with no arguments, a set
of handlers is automatically provided that is compatible with the old
HTML::Parser version 2 callback methods.

This is equivalent to the following method calls:

```
 $p->handler(start   => "start",   "self, tagname, attr, attrseq, text");
 $p->handler(end     => "end",     "self, tagname, text");
 $p->handler(text    => "text",    "self, text, is_cdata");
 $p->handler(process => "process", "self, token0, text");
 $p->handler(comment =>
         sub {
  my($self, $tokens) = @_;
  for (@$tokens) {$self->comment($_);}},
         "self, tokens");
 $p->handler(declaration =>
         sub {
```

```
  my $self = shift;
  $self->declaration(substr($_[0], 2, -1));},
        "self, text");
```

Setting up these handlers can also be
requested with the "api_version =>
2" constructor option.

=head1 SUBCLASSING

The C<HTML::Parser> class is subclassable. Parser objects are plain hashes and C<HTML::Parser> reserves only hash keys that start with "_hparser". The parser state can be set up by invoking the init() method, which takes the same arguments as new().

=head1 EXAMPLES

The first simple example shows how you might strip out comments from an HTML document. We achieve this by setting up a comment handler that does nothing and a default handler that will print out anything else:

```
 use HTML::Parser;
 HTML::Parser->new(default_h => [sub { print shift }, 'text'],
                   comment_h => [""],
                  )->parse_file(shift || die) || die $!;
```

An alternative implementation is:

```
 use HTML::Parser;
 HTML::Parser->new(end_document_h => [sub { print shift },
                                     'skipped_text'],
                   comment_h      => [""],
                  )->parse_file(shift ||
 die) || die $!;
```

This will in most cases be much more efficient since only a single callback will be made.

The next example prints out the text that is inside the <title> element of an HTML document. Here we start by setting up a start handler. When it sees the title start tag it enables a text handler that prints any text found and an end handler that will terminate parsing as soon as the title end tag is seen:

```
 use HTML::Parser ();

 sub start_handler
 {
```

```
  return if shift ne "title";
  my $self = shift;
  $self->handler(text => sub { print shift }, "dtext");
  $self->handler(end  => sub { shift->eof if shift eq "title"; },
          "tagname,self");
}

my $p = HTML::Parser->new(api_version => 3);
$p->handler( start => \&start_handler, "tagname,self");
$p->parse_file(shift || die) || die $!;
print "\n";
```

More examples are found in the F<eg/> directory of the C<HTML-Parser>
distribution: the program C<hrefsub> shows how you can edit all links
found in a document;
 the program C<htextsub> shows how to edit the text only; the
program C<hstrip> shows how you can strip out certain tags/elements
and/or attributes; and the program C<htext> show how to obtain the
plain text, but not any script/style content.

You can browse the F<eg/> directory online from the I<[Browse]> link on
the http://search.cpan.org/~gaas/HTML-Parser/ page.

=head1 BUGS

The <style> and <script> sections do not end with the first "</", but
need the complete corresponding end tag. The standard behaviour is
not really practical.

When the I<strict_comment> option is enabled, we still recognize
comments where there is something other than whitespace between even
and odd "--" markers.

Once $p->boolean_attribute_value has been set, there is no way to
restore the default behaviour.

There is currently no way to get both quote characters
into the same literal argspec.

Empty tags, e.g. "<>" and "</>", are not recognized. SGML allows them
to repeat the previous start tag or close
 the previous start tag
respectively.

NET tags, e.g. "code/.../" are not recognized. This is SGML
shorthand for "<code>...</code>".

Unclosed start or end tags, e.g. "<tt<b>...</b</tt>" are not

recognized.

=head1 DIAGNOSTICS

The following messages may be produced by HTML::Parser. The notation
in this listing is the same as used in L<perldiag>:

=over

=item Not a reference to a hash

(F) The object blessed into or subclassed from HTML::Parser is not a
hash as required by the HTML::Parser methods.

=item Bad signature in parser state object at %p

(F) The _hparser_xs_state element does not refer to a valid state structure.
Something must have changed the internal value
stored in this hash element, or the memory has been overwritten.

=item _hparser_xs_state element is not a reference

(F) The _hparser_xs_state element has been destroyed.

=item Can't find '_hparser_xs_state' element in HTML::Parser hash

(F) The _hparser_xs_state element is missing from the parser hash.
It was
 either deleted, or not created when the object was created.

=item API version %s not supported by HTML::Parser %s

(F) The constructor option 'api_version' with an argument greater than
or equal to 4 is reserved for future extensions.

=item Bad constructor option '%s'

(F) An unknown constructor option key was passed to the new() or
init() methods.

=item Parse loop not allowed

(F) A handler invoked the parse() or parse_file() method.
This is not permitted.

=item marked sections not supported

(F) The $p->marked_sections() method was invoked in a HTML::Parser

module that was compiled without support for marked sections.

=item Unknown boolean attribute (%d)

(F) Something is wrong with the internal logic that set up aliases for
boolean attributes.

=item Only code or array references allowed as handler

(F) The second argument for $p->handler must be either a subroutine
reference, then name of a subroutine or method, or a reference to an
array.

=item No handler for %s events

(F)
The first argument to $p->handler must be a valid event name; i.e. one
of "start", "end", "text", "process", "declaration" or "comment".

=item Unrecognized identifier %s in argspec

(F) The identifier is not a known argspec name.
Use one of the names mentioned in the argspec section above.

=item Literal string is longer than 255 chars in argspec

(F) The current implementation limits the length of literals in
an argspec to 255 characters. Make the literal shorter.

=item Backslash reserved for literal string in argspec

(F) The backslash character "\" is not allowed in argspec literals.
It is reserved to permit quoting inside a literal in a later version.

=item Unterminated literal string in argspec

(F) The terminating quote character for a literal was not found.

=item Bad argspec (%s)

(F) Only identifier names, literals, spaces and commas
are allowed in argspecs.

=item Missing comma separator in argspec

(F) Identifiers in an argspec must be separated with ",".

=item Parsing

of undecoded UTF-8 will give garbage when decoding entities

(W) The first chunk parsed appears to contain undecoded UTF-8 and one
or more argspecs that decode entities are used for the callback
handlers.

The result of decoding will be a mix of encoded and decoded characters
for any entities that expand to characters with code above 127. This
is not a good thing.

The recommended solution is to apply Encode::decode_utf8() on the data before
feeding it to the $p->parse(). For $p->parse_file() pass a file that has been
opened in ":utf8" mode.

The alternative solution is to enable the C<utf8_mode> and not decode before
passing strings to $p->parse(). The parser can process raw undecoded UTF-8
sanely if the C<utf8_mode> is enabled, or if the "attr", "@attr" or "dtext"
argspecs are avoided.

=item Parsing string decoded with wrong endianness

(W) The first character in the document is U+FFFE. This is not a
legal Unicode character but a byte swapped BOM. The result of parsing
will likely
be garbage.

=item Parsing of undecoded UTF-32

(W) The parser found the Unicode UTF-32 BOM signature at the start
of the document. The result of parsing will likely be garbage.

=item Parsing of undecoded UTF-16

(W) The parser found the Unicode UTF-16 BOM signature at the start of
the document. The result of parsing will likely be garbage.

=back

=head1 SEE ALSO

L<HTML::Entities>, L<HTML::PullParser>, L<HTML::TokeParser>, L<HTML::HeadParser>,
L<HTML::LinkExtor>, L<HTML::Form>

L<HTML::TreeBuilder> (part of the I<HTML-Tree> distribution)

L<http://www.w3.org/TR/html4/>

More information about marked sections and processing instructions may

be found at L<http://www.is-thought.co.uk/book/sgml-8.htm>.

=head1 COPYRIGHT

Copyright 1996-2016 Gisle Aas. All rights reserved.
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This library is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

=cut

Found in path(s):
* /libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/Parser.pm
No license file was found, but licenses were detected in source scan.

OVERVIEW

The HTML-Parser distribution is is a collection of modules that parse
and extract information from HTML documents. The modules present in
this collection are:

 HTML::Parser - The parser base class. It receives arbitrary sized
     chunks of the HTML text, recognizes markup elements, and
     separates them from the plain text. As different kinds of markup
     and text are recognized, the corresponding event handlers are
     invoked.

 HTML::Entities - Provides functions to encode and decode text with
     embedded HTML <entities>.

 HTML::HeadParser - A lightweight HTML::Parser subclass that extracts
     information from the <HEAD> section of an HTML document.

 HTML::LinkExtor - An HTML::Parser subclass that extracts links from
     an HTML document.

 HTML::PullParser - An alternative interface to the basic parser
     that does not require event driven programming.

 HTML::TokeParser - An HTML::PullParser subclass with fixed
     token setup and methods for extracting text. Many simple
     parsing needs are probably best attacked with this module.

In addition take a look at the HTML-Tree package that build on
HTML::Parser to create and extract information from HTML syntax trees
(similar to HTML DOM).

PREREQUISITES

In order to install and use this package you will need Perl version
5.8 or better. The HTML::Tagset module should be installed.

If you intend to use the HTML::HeadParser you probably want to install
libwww-perl too.

INSTALLATION

Just follow the usual procedure:

```
 perl Makefile.PL
 make
 make test
 make install
```

REPORTING BUGS

Bug reports and issues for discussion about these modules can be sent
to the <libwww@perl.org> mailing list.

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 modify
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Found in path(s):
* /libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/README
No license file was found, but licenses were detected in source scan.

=head1 NAME

HTML::PullParser - Alternative HTML::Parser interface

=head1 SYNOPSIS

use HTML::PullParser;

$p = HTML::PullParser->new(file => "index.html",

```
                    start => 'event, tagname, @attr',
                    end   => 'event, tagname',
                    ignore_elements => [qw(script style)],
                   ) || die "Can't open: $!";
while (my $token = $p->get_token) {
   #...do something with $token
}
```

=head1 DESCRIPTION

The HTML::PullParser is an alternative interface to the HTML::Parser class.
It basically turns the HTML::Parser inside out. You associate a file
(or any IO::Handle object or string) with the parser at construction time and
then repeatedly call $parser->get_token to obtain the tags and text
found in the parsed document.

The following methods are provided:

=over 4

=item $p = HTML::PullParser->new(file => $file, %options)

=item $p
 = HTML::PullParser->new(doc => \$doc, %options)

A C<HTML::PullParser> can be made to parse from either a file or a
literal document based on whether the C<file> or C<doc> option is
passed to the parser's constructor.

The C<file> passed in can either be a file name or a file handle
object. If a file name is passed, and it can't be opened for reading,
then the constructor will return an undefined value and $! will tell
you why it failed. Otherwise the argument is taken to be some object
that the C<HTML::PullParser> can read() from when it needs more data.
The stream will be read() until EOF, but not closed.

A C<doc> can be passed plain or as a reference
to a scalar. If a reference is passed then the value of this scalar
should not be changed before all tokens have been extracted.

Next the information to be returned for the different token types must
be set up. This is done by simply associating an argspec (as defined
in L<HTML::Parser>) with the events you have an interest in.
  For
instance, if you want C<start> tokens to be reported as the string
C<'S'> followed by the tagname and the attributes you might pass an
C<start>-option like this:

```
 $p = HTML::PullParser->new(
       doc   => $document_to_parse,
       start => '"S", tagname, @attr',
       end   => '"E", tagname',
      );
```

At last other C<HTML::Parser> options, like C<ignore_tags>, and
C<unbroken_text>, can be passed in. Note that you should not use the
I<event>_h options to set up parser handlers. That would confuse the
inner logic of C<HTML::PullParser>.

=item $token = $p->get_token

This method will return the next I<token> found in the HTML document,
or C<undef> at the end of the document. The token is returned as an
array reference. The content of this array match the argspec set up
during C<HTML::PullParser> construction.

=item $p->unget_token(@tokens)

If you find out you have read too many tokens you can push them back,
so that they are returned again the next time
 $p->get_token is called.

=back

=head1 EXAMPLES

The 'eg/hform' script shows how we might parse the form section of
HTML::Documents using HTML::PullParser.

=head1 SEE ALSO

L<HTML::Parser>, L<HTML::TokeParser>

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=back

=head1 EXAMPLE

```
$h = HTTP::Headers->new;
$p = HTML::HeadParser->new($h);
$p->parse(<<EOT);
<title>Stupid example</title>
<base href="http://www.linpro.no/lwp/">
Normal text starts here.
EOT
undef $p;
print $h->title;   # should print "Stupid example"
```

=head1 SEE ALSO

L<HTML::Parser>, L<HTTP::Headers>

The C<HTTP::Headers> class is distributed as part of the
I<libwww-perl> package. If you don't have that distribution installed
you need to provide the $header argument to the C<HTML::HeadParser>
constructor with your own object that implements the documented
protocol.

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=head1 EXAMPLE

This is an example showing how you can extract links from a document
received using LWP:

```
 use LWP::UserAgent;
 use HTML::LinkExtor;
 use URI::URL;
```

```
$url = "http://www.perl.org/";  # for instance
$ua = LWP::UserAgent->new;

# Set up a callback that collect image links
my @imgs = ();
sub callback {
   my($tag, %attr) = @_;
   return if $tag ne 'img';  # we only look closer at <img ...>
   push(@imgs, values %attr);
}

# Make the parser.  Unfortunately, we don't know the base yet
# (it might be different from $url)
$p = HTML::LinkExtor->new(\&callback);

# Request document and parse it as it arrives
$res = $ua->request(HTTP::Request->new(GET => $url),
                    sub {$p->parse($_[0])});

# Expand all image URLs to absolute ones
my $base = $res->base;
@imgs = map { $_ = url($_, $base)->abs; } @imgs;

# Print them out
print join("\n", @imgs), "\n";
```

=head1
SEE ALSO

L<HTML::Parser>, L<HTML::Tagset>, L<LWP>, L<URI::URL>

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=encoding utf8

=head1 NAME

HTML::Entities - Encode or decode strings with HTML entities

=head1 SYNOPSIS

use HTML::Entities;

$a = "Våre norske tegn bør &#230res";
decode_entities($a);
encode_entities($a, "\200-\377");

For example, this:

$input = "vis-à-vis Beyoncé's naïve\npapier-mâché résumé";
print encode_entities($input), "\n"

Prints this out:

vis-à-vis Beyoncé's naïve
papier-mâché résumé

=head1 DESCRIPTION

This module deals with encoding and decoding of strings with HTML
character entities. The module provides the following functions:

=over 4

=item decode_entities($string, ...)

This routine replaces HTML entities found in the $string with the
corresponding Unicode character. Unrecognized entities are left alone.

If multiple strings are provided as argument they are each decoded
separately and the same number of strings are returned.

If
 called in void context the arguments are decoded in-place.

This routine is exported by default.

=item _decode_entities($string, \%entity2char)

=item _decode_entities($string, \%entity2char, $expand_prefix)

This will in-place replace HTML entities in $string. The %entity2char
hash must be provided. Named entities not found in the %entity2char
hash are left alone. Numeric entities are expanded unless their value
overflow.

The keys in %entity2char are the entity names to be expanded and their values are what they should expand into. The values do not have to be single character strings. If a key has ";" as suffix, then occurrences in $string are only expanded if properly terminated with ";". Entities without ";" will be expanded regardless of how they are terminated for compatibility with how common browsers treat entities in the Latin-1 range.

If $expand_prefix is TRUE then entities without trailing ";" in %entity2char will even be expanded as a prefix of a longer unrecognized
name. The longest matching name in %entity2char will be used. This is mainly present for compatibility with an MSIE misfeature.

```
$string = "foo&nbspbar";
_decode_entities($string, { nb => "@", nbsp => "\xA0" }, 1);
print $string;  # will print "foo bar"
```

This routine is exported by default.

=item encode_entities($string)

=item encode_entities($string, $unsafe_chars)

This routine replaces unsafe characters in $string with their entity representation. A second argument can be given to specify which characters to consider unsafe. The unsafe characters is specified using the regular expression character class syntax (what you find within brackets in regular expressions).

The default set of characters to encode are control chars, high-bit chars, and the C<< < >>, C<< & >>, C<< > >>, C<< ' >> and C<< " >> characters. But this, for example, would encode I<just> the C<< < >>, C<< & >>, C<< > >>, and C<< " >> characters:

```
$encoded = encode_entities($input, '<>&"');
```

and
this would only encode non-plain ascii:

```
$encoded = encode_entities($input, '^\n\x20-\x25\x27-\x7e');
```

This routine is exported by default.

=item encode_entities_numeric($string)

=item encode_entities_numeric($string, $unsafe_chars)

This routine works just like encode_entities, except that the replacement
entities are always C<&#xI<hexnum>;> and never C<&I<entname>;>. For
example, C<encode_entities("r\xF4le")> returns "rôle", but
C<encode_entities_numeric("r\xF4le")> returns "rôle".

This routine is I<not> exported by default. But you can always
export it with C<use HTML::Entities qw(encode_entities_numeric);>
or even C<use HTML::Entities qw(:DEFAULT encode_entities_numeric);>

=back

All these routines modify the string passed as the first argument, if
called in a void context. In scalar and array contexts, the encoded or
decoded string is returned (without changing the input string).

If you prefer not to import these routines into your namespace, you
 can
call them as:

 use HTML::Entities ();
 $decoded = HTML::Entities::decode($a);
 $encoded = HTML::Entities::encode($a);
 $encoded = HTML::Entities::encode_numeric($a);

The module can also export the %char2entity and the %entity2char
hashes, which contain the mapping from all characters to the
corresponding entities (and vice versa, respectively).

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=head1 NAME

HTML::Filter - Filter HTML text through the parser

=head1 NOTE

B<This module is deprecated.> The C<HTML::Parser> now provides the
functionally of C<HTML::Filter> much more efficiently with the
C<default> handler.

=head1 SYNOPSIS

```
require HTML::Filter;
$p = HTML::Filter->new->parse_file("index.html");
```

=head1 DESCRIPTION

C<HTML::Filter> is an HTML parser that by default prints the
original text of each HTML element (a slow version of cat(1) basically).
The callback methods may be overridden to modify the filtering for some
HTML elements and you can override output() method which is called to
print the HTML text.

C<HTML::Filter> is a subclass of C<HTML::Parser>. This means that
the document should be given to the parser by calling the $p->parse()
or $p->parse_file() methods.

=head1 EXAMPLES

The first example is a filter that will remove all comments from an
HTML file. This is achieved by simply overriding
 the comment method
to do nothing.

```
 package CommentStripper;
 require HTML::Filter;
 @ISA=qw(HTML::Filter);
 sub comment { }  # ignore comments
```

The second example shows a filter that will remove any E<lt>TABLE>s
found in the HTML file. We specialize the start() and end() methods
to count table tags and then make output not happen when inside a
table.

```
 package TableStripper;
 require HTML::Filter;
 @ISA=qw(HTML::Filter);
 sub start
 {
   my $self = shift;
   $self->{table_seen}++ if $_[0] eq "table";
   $self->SUPER::start(@_);
 }
```

```
sub end
{
   my $self = shift;
   $self->SUPER::end(@_);
   $self->{table_seen}-- if $_[0] eq "table";
}

sub output
{
    my $self = shift;
    unless ($self->{table_seen}) {
  $self->SUPER::output(@_);
    }
}
```

If you want to collect the parsed text internally you might want to do
something like this:

```
package FilterIntoString;
require HTML::Filter;
@ISA=qw(HTML::Filter);
sub output { push(@{$_[0]->{fhtml}},
$_[1]) }
sub filtered_html { join("", @{$_[0]->{fhtml}}) }
```

=head1 SEE ALSO

L<HTML::Parser>

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=cut

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---
abstract: 'HTML parser class'
author:
 - 'Gisle Aas <gisle@activestate.com>'
build_requires:

```
 ExtUtils::MakeMaker: 0
 Test::More: 0
configure_requires:
 ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.133380'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: 1.4
name: HTML-Parser
no_index:
 directory:
   - t
   - inc
recommends:
 HTTP::Headers: 0
requires:
 HTML::Tagset: 3
 XSLoader: 0
 perl: 5.008
resources:
 MailingList: mailto:libwww@perl.org
 repository: http://github.com/gisle/html-parser
version: 3.72
```

Found in path(s):
* /libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/META.yml
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```
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*
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*/
```

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

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* /libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/hparser.c
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=head1 NAME

HTML::TokeParser - Alternative HTML::Parser interface

=head1 SYNOPSIS

require HTML::TokeParser;
$p = HTML::TokeParser->new("index.html") ||
    die "Can't open: $!";
$p->empty_element_tags(1); # configure its behaviour

while (my $token = $p->get_token) {
   #...
}

=head1 DESCRIPTION

The C<HTML::TokeParser> is an alternative interface to the
C<HTML::Parser> class. It is an C<HTML::PullParser> subclass with a
predeclared set of token types. If you wish the tokens to be reported
differently you probably want to use the C<HTML::PullParser> directly.

The following methods are available:

=over 4

=item $p = HTML::TokeParser->new($filename, %opt);

=item $p = HTML::TokeParser->new($filehandle, %opt);

=item $p = HTML::TokeParser->new(\$document, %opt);

The object constructor argument is either a file name, a file handle
object, or the complete document to be parsed. Extra options can
 be
provided as key/value pairs and are processed as documented by the base
classes.

If the argument is a plain scalar, then it is taken as the name of a
file to be opened and parsed. If the file can't be opened for
reading, then the constructor will return C<undef> and $! will tell
you why it failed.

If the argument is a reference to a plain scalar, then this scalar is
taken to be the literal document to parse. The value of this
scalar should not be changed before all tokens have been extracted.

Otherwise the argument is taken to be some object that the
C<HTML::TokeParser> can read() from when it needs more data. Typically
it will be a filehandle of some kind. The stream will be read() until
EOF, but not closed.

A newly constructed C<HTML::TokeParser> differ from its base classes
by having the C<unbroken_text> attribute enabled by default. See
L<HTML::Parser> for a description of this and other attributes that
influence how the document is parsed. It is often a good idea to enable
C<empty_element_tags>
 behaviour.

Note that the parsing result will likely not be valid if raw undecoded
UTF-8 is used as a source. When parsing UTF-8 encoded files turn
on UTF-8 decoding:

```
 open(my $fh, "<:utf8", "index.html") || die "Can't open 'index.html': $!";
 my $p = HTML::TokeParser->new( $fh );
 # ...
```

If a $filename is passed to the constructor the file will be opened in
raw mode and the parsing result will only be valid if its content is
Latin-1 or pure ASCII.

If parsing from an UTF-8 encoded string buffer decode it first:

```
 utf8::decode($document);
 my $p = HTML::TokeParser->new( \$document );
 # ...
```

=item $p->get_token

This method will return the next I<token> found in the HTML document,
or C<undef> at the end of the document. The token is returned as an
array reference. The first element of the array will be a string
denoting the type of this token: "S" for start tag, "E" for end tag,
"T" for text, "C" for comment, "D" for declaration, and "PI" for
process
 instructions. The rest of the token array depend on the type
like this:

```
["S",  $tag, $attr, $attrseq, $text]
["E",  $tag, $text]
```

```
 ["T",  $text, $is_data]
 ["C",  $text]
 ["D",  $text]
 ["PI", $token0, $text]
```

where $attr is a hash reference, $attrseq is an array reference and
the rest are plain scalars. The L<HTML::Parser/Argspec> explains the
details.

=item $p->unget_token(@tokens)

If you find you have read too many tokens you can push them back,
so that they are returned the next time $p->get_token is called.

=item $p->get_tag

=item $p->get_tag(@tags)

This method returns the next start or end tag (skipping any other
tokens), or C<undef> if there are no more tags in the document. If
one or more arguments are given, then we skip tokens until one of the
specified tag types is found. For example:

```
  $p->get_tag("font", "/font");
```

will find the next start or end tag for a font-element.

The tag information is returned as an array reference in the same form
as
 for $p->get_token above, but the type code (first element) is
missing. A start tag will be returned like this:

```
 [$tag, $attr, $attrseq, $text]
```

The tagname of end tags are prefixed with "/", i.e. end tag is
returned like this:

```
 ["/$tag", $text]
```

=item $p->get_text

=item $p->get_text(@endtags)

This method returns all text found at the current position. It will
return a zero length string if the next token is not text. Any
entities will be converted to their corresponding character.

If one or more arguments are given, then we return all text occurring

before the first of the specified tags found. For example:

 $p->get_text("p", "br");

will return the text up to either a paragraph of linebreak element.

The text might span tags that should be I<textified>. This is
controlled by the $p->{textify} attribute, which is a hash that
defines how certain tags can be treated as text. If the name of a
start tag matches a key in this hash then this tag is converted to
text. The hash
 value is used to specify which tag attribute to obtain
the text from. If this tag attribute is missing, then the upper case
name of the tag enclosed in brackets is returned, e.g. "[IMG]". The
hash value can also be a subroutine reference. In this case the
routine is called with the start tag token content as its argument and
the return value is treated as the text.

The default $p->{textify} value is:

 {img => "alt", applet => "alt"}

This means that <IMG> and <APPLET> tags are treated as text, and that
the text to substitute can be found in the ALT attribute.

=item $p->get_trimmed_text

=item $p->get_trimmed_text(@endtags)

Same as $p->get_text above, but will collapse any sequences of white
space to a single space character. Leading and trailing white space is
removed.

=item $p->get_phrase

This will return all text found at the current position ignoring any
phrasal-level tags. Text is extracted until the first non
phrasal-level tag. Textification of tags is the same as
 for
get_text(). This method will collapse white space in the same way as
get_trimmed_text() does.

The definition of phrasal-level tags is obtained from the
HTML::Tagset module.

=back

=head1 EXAMPLES

This example extracts all links from a document. It will print one
line for each link, containing the URL and the textual description
between the <A>...</A> tags:

```
 use HTML::TokeParser;
 $p = HTML::TokeParser->new(shift||"index.html");

 while (my $token = $p->get_tag("a")) {
    my $url = $token->[1]{href} || "-";
    my $text = $p->get_trimmed_text("/a");
    print "$url\t$text\n";
 }
```

This example extract the <TITLE> from the document:

```
 use HTML::TokeParser;
 $p = HTML::TokeParser->new(shift||"index.html");
 if ($p->get_tag("title")) {
    my $title = $p->get_trimmed_text;
    print "Title: $title\n";
 }
```

=head1 SEE ALSO

L<HTML::PullParser>, L<HTML::Parser>

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1.336 gnupg 2.2.19-3ubuntu2.1

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.337 nspr 4.25-1

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1.338 go-yaml 2.4.0

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1.339 iconv 2.31

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1.340 liburi-perl 1.76-2

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1.347 man-pages 5.05-1

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```
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#
# find_dot_no_parens.sh
#
# Look for function names after /^.[BIR]/ that aren't
# followed by "()".
#
# This script is designed to help with "by hand" tidy-ups after
# the automated changes made by add_parens_for_own_funcs.sh.
#
# The first argument to this script names a manual page directory where
# 'man2' and 'man3' subdirectories can be found.  The pages names in
# these directories are used to generate a series of regular expressions
# that can be used to search the manual page files that are named in
# the remaining command-line arguments.
#
# Example usage:
#
#    cd man-pages-x.yy
#    sh find_dots_no_parens.sh . man?/*.? > matches.log
#
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1.351 python 2.7.17-2ubuntu4

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Python was created in the early 1990s by Guido van Rossum at Stichting
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In 1995, Guido continued his work on Python at the Corporation for National
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In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
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2.3.4	2.3.3	2004	PSF	yes
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// This file was generated by gir (https://github.com/gtk-rs/gir)
// from gir-files (https://github.com/gtk-rs/gir-files)

```
// DO NOT EDIT

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,
  ) -> Pin<Box_<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>>;

  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(
                self.as_ref().to_glib_none().0,
            ))
        }
    }

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,

instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline

functions (ten lines or less in length), then the
use of the object
file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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

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

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

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

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

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

<one line to give the library's name and a brief idea of what it does.>
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Boston, MA 02111-1307 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
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Free Software Foundation and other authors who
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can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
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you have the freedom to distribute copies of free software (and charge
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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.

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

Once this change is made in a given copy, it is irreversible for

that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may

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

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

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

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

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

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

d) If distribution of the work is made by offering access to copy

from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally
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1.362 libxkbcommon 0.10.0-1

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1.363 ppp 2.4.7-2+4.1ubuntu5.1

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1.364 python-wadllib 1.3.3-3build1

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1.365 nss-mdns 0.14.1-1ubuntu1

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1.368 lazr-uri 1.0.3-4build1

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1.371 libimobiledevice 1.2.1~git20191129.9f79242-1build1

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1.372 python-oauthlib 3.1.0-1ubuntu2

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1.373 wavpack 5.2.0-1ubuntu0.1

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1.374 simplejson 3.16.0-2ubuntu2

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1.375 entrypoints 0.3-2ubuntu1

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1.376 libplist 2.1.0-4build2

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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.)

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1.381 python-secretstorage 2.3.1-2ubuntu1

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1.382 python-cryptography 2.8-3ubuntu0.1

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1.383 blinker 1.4+dfsg1-0.3ubuntu1

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1.384 python-debian 0.1.36ubuntu1

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1.385 zope-interface 4.7.1-1

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1.387 python-jsonpointer 2.0-0ubuntu1

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1.388 pyasn1 0.4.2-3build1

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Metadata-Version: 1.1
Name: pyasn1
Version: 0.4.2
Summary: ASN.1 types and codecs
Home-page: https://github.com/etingof/pyasn1
Author: Ilya Etingof <etingof@gmail.com>
Author-email: etingof@gmail.com
License: BSD
Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
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Found in path(s):

* /pyasn1-0-4-2-orig-1-tar-gz/pyasn1-0.4.2/PKG-INFO
* /pyasn1-0-4-2-orig-1-tar-gz/pyasn1-0.4.2/pyasn1.egg-info/PKG-INFO

1.389 python-colorama 0.4.3-1build1

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1.390 lxd-agent-loader 0.4

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Upstream-Name: lxd
Upstream-Contact: lxc-devel@lists.linuxcontainers.org
Source: https://linuxcontainers.org/lxd/downloads
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1.391 secureboot-db 1.5

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1.392 pollinate 4.33-3ubuntu1.20.04.1

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1.394 libsmbios 2.4.3-1

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* Date: 20010111
* Why: Because I couldn't find one that I liked. So I wrote this one.
*
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1.395 open-vm-tools 11.0.5-4

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>>> freebsd-base64-4.8
>>>
unicode-5.0

==========

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$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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1.396 python-click 7.0-3

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```
import io
import re
from setuptools import setup

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

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

setup(
  name="Click",
  version=version,
  url="https://palletsprojects.com/p/click/",
  project_urls={
     "Documentation": "https://click.palletsprojects.com/",
     "Code": "https://github.com/pallets/click",
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  license="BSD",
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  maintainer="Pallets Team",
  maintainer_email="contact@palletsprojects.com",
  description="Composable command line interface toolkit",
  long_description=readme,
  packages=["click"],
  include_package_data=True,
  python_requires=">=2.7, !=3.0.*, !=3.1.*,
!=3.2.*, !=3.3.*",
  classifiers=[
     "Development Status :: 5 - Production/Stable",
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     "License :: OSI Approved :: BSD License",
     "Operating System :: OS Independent",
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     "Programming Language :: Python :: 3",
     "Programming Language :: Python :: 3.4",
     "Programming Language :: Python :: 3.5",
     "Programming Language :: Python :: 3.6",
```

```
      "Programming Language :: Python :: 3.7",
  ],
)
```

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\$ click_
==========

Click is a Python package for creating beautiful command line interfaces
in a composable way with as little code as necessary. It's the "Command
Line Interface Creation Kit". It's highly configurable but comes with
sensible defaults out of the box.

It aims to make the process of writing command line tools quick and fun
while also preventing any frustration caused by the inability to
implement an intended CLI API.

Click in three points:

- Arbitrary nesting of commands
- Automatic help page generation
- Supports lazy loading of subcommands at runtime

Installing

Install and update using `pip`_:

.. code-block:: text

  $ pip install click

Click supports Python 3.4 and newer, Python 2.7, and PyPy.

.. _pip: https://pip.pypa.io/en/stable/quickstart/

A Simple Example

What does it look like? Here is an example of a simple Click program:

.. code-block:: python

   import click

  @click.command()
  @click.option("--count", default=1, help="Number of greetings.")
  @click.option("--name", prompt="Your name",
              help="The person to greet.")
  def hello(count, name):
      """Simple program that greets NAME for a total of COUNT times."""
      for _ in range(count):
          click.echo("Hello, %s!" % name)

  if __name__ == '__main__':
      hello()

And what it looks like when run:

.. code-block:: text

  $ python hello.py --count=3
  Your name: Click
  Hello, Click!
  Hello, Click!
  Hello, Click!

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-----

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1.397 ptyprocess 0.6.0-1ubuntu1

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1.398 python-jsonschema 3.2.0-0ubuntu2

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1.399 htop 2.2.0-2build1

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/* checkTag : validation tool for libzstd
* command :
* $ ./checkTag tag
* checkTag validates tags of following format : v[0-9].[0-9].[0-9]{any}
* The tag is then compared to zstd version number.
* They are compatible if first 3 digits are identical.
* Anything beyond that is free, and doesn't impact validation.
* Example : tag v1.8.1.2 is compatible with version 1.8.1
* When tag and version are not compatible, program exits with error code 1.
* When they are compatible, it exists with a code 0.
* checkTag is intended to be used in automated testing environment.
*/

1.409 libtasn 4.16.0-2

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

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

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

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

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for

reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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

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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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use the Lesser General Public License.

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means

all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany

it with the complete corresponding machine-readable source code, which must be
distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered
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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

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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,

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b) Accompany the object code with a copy of the GNU GPL and this license
document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that,
taken together, effectively do not restrict modification of the
portions of the Library contained in the Combined Work and reverse
engineering for debugging such modifications, if you also do each of
the following:

a) Give prominent notice with each copy of the Combined Work that
the Library is used in it and that the Library and its use are
covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license
document.

c) For a Combined Work that displays copyright
notices during
execution, include the copyright notice for the Library among
these notices, as well as a reference directing the user to the
copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this
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suitable for, and under terms that permit, the user to
recombine or relink the Application with a modified version of
the Linked Version to produce a modified Combined Work, in the
manner specified by section 6 of the GNU GPL for conveying
Corresponding Source.

1) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (a) uses at run time
a copy of the Library already present on the user's computer
system, and (b) will operate properly with a modified version
of the Library that is interface-compatible
with the Linked
Version.

e) Provide Installation Information, but only if you would otherwise
be required to provide such information under section 6 of the
GNU GPL, and only to the extent that such information is
necessary to install and execute a modified version of the
Combined Work produced by recombining or relinking the
Application with a modified version of the Linked Version. (If
you use option 4d0, the Installation Information must accompany
the Minimal Corresponding Source and Corresponding Application
Code. If you use option 4d1, you must provide the Installation
Information in the manner specified by section 6 of the GNU GPL
for conveying Corresponding Source.)

5. Combined Libraries.

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 that are not Applications and are not covered by this
License, and convey such a combined library under
terms of your
choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based
on the Library, uncombined with any other library facilities,
conveyed under the terms of this License.

b) Give prominent notice with the combined library 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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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.]

Preamble

The licenses for most software are designed to take away your
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code. If you link a program with the library, you must provide
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with the library, after making changes
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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 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:

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

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

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to

exercise the right to control the distribution of derivative or
collective works based on the Library.

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

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

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

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

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

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it

contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

6. As an exception to the Sections above, you may also 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:

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that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

<one line to give the library's name and a brief idea of what it does.>
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@heading Preamble

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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 prevent others from denying you
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For example, if you distribute copies of such a program, whether
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receive or can get the source code. And you must show them these
terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous
 versions.

Some devices are designed to deny users access to install or run

modified versions of the software inside them, although the
manufacturer can do so. This is fundamentally incompatible with the
aim of protecting users' freedom to change the software. The
systematic pattern of such abuse occurs in the area of products for
individuals to use, which is precisely where it is most unacceptable.
Therefore, we have designed this version of the GPL to prohibit the
practice for those products. If such problems arise substantially in
other domains, we stand ready to extend this provision to those
domains in future versions of the GPL, as needed to protect the
freedom of users.

Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish
to avoid the special danger that patents applied to a free program
could make it effectively proprietary.
 To prevent this, the GPL
assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and
modification follow.

@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

``This License'' refers to version 3 of the GNU General Public License.

``Copyright'' also means copyright-like laws that apply to other kinds
of works, such as semiconductor masks.

``The Program'' refers to any copyrightable work licensed under this
License. Each licensee is addressed as ``you''.  ``Licensees'' and
``recipients'' may be individuals or organizations.

To ``modify'' a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of
an exact copy. The resulting work is called a ``modified version'' of
the earlier work or a work ``based on'' the earlier work.

A ``covered work'' means either the unmodified Program or a work based
on the Program.

To ``propagate'' a
 work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a

computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To ``convey'' a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays ``Appropriate Legal Notices'' to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface
presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

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The ``source code'' for a work means the preferred form of the work for making modifications to it. ``Object code'' means any non-source form of a work.

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@c man end

1.414 libio-socket-ssl-perl 2.067-1

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---
abstract: 'Nearly transparent SSL encapsulation for IO::Socket::INET.'
author:
 - 'Steffen Ullrich <sullr@cpan.org>, Peter Behroozi, Marko Asplund'
build_requires:
 ExtUtils::MakeMaker: '0'
configure_requires:
 ExtUtils::MakeMaker: '0'
 Net::SSLeay: '1.46'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: IO-Socket-SSL
no_index:
 directory:
   - t
   - inc

```
requires:
 Mozilla::CA: '0'
 Net::SSLeay: '1.46'
 Scalar::Util: '0'
resources:
 bugtracker: https://rt.cpan.org/Dist/Display.html?Queue=IO-Socket-SSL
 homepage: https://github.com/noxxi/p5-io-socket-ssl
 license: http://dev.perl.org/licenses/
 repository: https://github.com/noxxi/p5-io-socket-ssl
version: '2.067'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
*
 /libio-socket-ssl-perl-2-067-orig-tar-gz/IO-Socket-SSL-2.067/META.yml
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* /libio-socket-ssl-perl-2-067-orig-tar-gz/IO-Socket-SSL-2.067/lib/IO/Socket/SSL/PublicSuffix.pm
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=head1 NAME

IO::Socket::SSL - SSL sockets with IO::Socket interface

=head1 SYNOPSIS

  use strict;
  use IO::Socket::SSL;

  # simple client
  my $cl = IO::Socket::SSL->new('www.google.com:443');
  print $cl "GET / HTTP/1.0\r\n\r\n";
  print <$cl>;

  # simple server
  my $srv = IO::Socket::SSL->new(
 LocalAddr => '0.0.0.0:1234',
 Listen => 10,
 SSL_cert_file => 'server-cert.pem',
 SSL_key_file => 'server-key.pem',
  );
  $srv->accept;

=head1 DESCRIPTION
```

IO::Socket::SSL makes using SSL/TLS much easier by wrapping the necessary functionality into the familiar L<IO::Socket> interface and providing secure defaults whenever possible.
This way, existing applications can be made SSL-aware without much effort, at least if you do blocking I/O and don't use select or poll.

But, under the hood, SSL is a complex beast.
So there are lots of methods to make it do what you need if the default behavior is not
adequate.
Because it is easy to inadvertently introduce critical security bugs or just hard to debug problems, I would recommend studying the following documentation carefully.

The documentation consists of the following parts:

=over 4

=item * L</"Essential Information About SSL/TLS">

=item * L</"Basic SSL Client">

=item * L</"Basic SSL Server">

=item * L</"Common Usage Errors">

=item * L</"Common Problems with SSL">

=item * L</"Using Non-Blocking Sockets">

=item * L</"Advanced Usage">

=item * L</"Integration Into Own Modules">

=item * L</"Description Of Methods">

=back

Additional documentation can be found in

=over 4

=item * L<IO::Socket::SSL::Intercept> - Doing Man-In-The-Middle with SSL

=item * L<IO::Socket::SSL::Utils> - Useful functions for certificates etc

=back

=head1 Essential Information About SSL/TLS

SSL (Secure Socket Layer) or its successor TLS (Transport Layer Security) are protocols to facilitate end-to-end security. These protocols are used when accessing
web sites (https), delivering or retrieving email, and in lots of other use cases.
In the following documentation we will refer to both SSL and TLS as simply 'SSL'.

SSL enables end-to-end security by providing two essential functions:

=over 4

=item Encryption

This part encrypts the data for transit between the communicating parties, so that nobody in between can read them. It also provides tamper resistance so that nobody in between can manipulate the data.

=item Identification

This part makes sure that you talk to the right peer.
If the identification is done incorrectly it is easy to mount man-in-the-middle attacks, e.g. if Alice wants to talk to Bob it would be possible for Mallory to put itself in the middle, so that Alice talks to Mallory and Mallory to Bob.
All the data would still be encrypted, but not end-to-end between Alice and Bob, but only between Alice and Mallory and then between Mallory and Bob.
Thus Mallory would be able to read and modify all traffic between
Alice and Bob.

=back

Identification is the part which is the hardest to understand and the easiest to get wrong.

With SSL, the Identification is usually done with B<certificates> inside a B<PKI> (Public Key Infrastructure).
These Certificates are comparable to an identity card, which contains information about the owner of the card. The card then is somehow B<signed> by the B<issuer> of the card, the B<CA> (Certificate Agency).

To verify the identity of the peer the following must be done inside SSL:

=over 4

=item *

Get the certificate from the peer.
If the peer does not present a certificate we cannot verify it.

=item *

Check if we trust the certificate, e.g. make sure it's not a forgery.

We believe that a certificate is not a fake if we either know the certificate
already or if we B<trust> the issuer (the CA) and can verify the issuers
signature on the certificate.
In reality there is often a hierarchy of certificate agencies and we only
directly trust the root of this
 hierarchy.
In this case the peer not only sends his own certificate, but also all
B<intermediate certificates>.
Verification will be done by building a B<trust path> from the trusted root up
to the peers certificate and checking in each step if the we can verify the
issuer's signature.

This step often causes problems because the client does not know the necessary
trusted root certificates. These are usually stored in a system dependent
CA store, but often the browsers have their own CA store.

=item *

Check if the certificate is still valid.
Each certificate has a lifetime and should not be used after that time because
it might be compromised or the underlying cryptography got broken in the mean
time.

=item *

Check if the subject of the certificate matches the peer.
This is like comparing the picture on the identity card against the person
representing the identity card.

When connecting to a server this is usually done by comparing the hostname used
for connecting against the names
 represented in the certificate.
A certificate might contain multiple names or wildcards, so that it can be used
for multiple hosts (e.g. *.example.com and *.example.org).

Although nobody sane would accept an identity card where the picture does not
match the person we see, it is a common implementation error with SSL to omit
this check or get it wrong.

=item *

Check if the certificate was revoked by the issuer.
This might be the case if the certificate was compromised somehow and now somebody else might use it to claim the wrong identity.
Such revocations happened a lot after the heartbleed attack.

For SSL there are two ways to verify a revocation, CRL and OCSP.
With CRLs (Certificate Revocation List) the CA provides a list of serial numbers for revoked certificates. The client somehow has to download the list (which can be huge) and keep it up to date.
With OCSP (Online Certificate Status Protocol) the client can check a single certificate directly by asking the issuer.

Revocation
 is the hardest part of the verification and none of today's browsers get it fully correct. But, they are still better than most other implementations which don't implement revocation checks or leave the hard parts to the developer.

=back

When accessing a web site with SSL or delivering mail in a secure way the identity is usually only checked one way, e.g. the client wants to make sure it talks to the right server, but the server usually does not care which client it talks to.
But, sometimes the server wants to identify the client too and will request a certificate from the client which the server must verify in a similar way.

=head1 Basic SSL Client

A basic SSL client is simple:

```
  my $client = IO::Socket::SSL->new('www.example.com:443')
 or die "error=$!, ssl_error=$SSL_ERROR";
```

This will take the OpenSSL default CA store as the store for the trusted CA. This usually works on UNIX systems.
If there are no certificates in the store it will try use L<Mozilla::CA> which provides
 the default CAs of Firefox.

In the default settings, L<IO::Socket::SSL> will use a safer cipher set and SSL version, do a proper hostname check against the certificate, and use SNI (server name indication) to send the hostname inside the SSL handshake. This is necessary to work with servers which have different certificates behind the same IP address.
It will also check the revocation of the certificate with OCSP, but currently only if the server provides OCSP stapling (for deeper checks see

C<ocsp_resolver> method).

Lots of options can be used to change ciphers, SSL version, location of CA and
much more. See documentation of methods for details.

With protocols like SMTP it is necessary to upgrade an existing socket to SSL.
This can be done like this:

```
  my $client = IO::Socket::INET->new('mx.example.com:25') or die $!;
  # .. read greeting from server
  # .. send EHLO and read response
  # .. send STARTTLS command and read response
  # .. if response was successful we
 can upgrade the socket to SSL now:
  IO::Socket::SSL->start_SSL($client,
 # explicitly set hostname we should use for SNI
 SSL_hostname => 'mx.example.com'
  ) or die $SSL_ERROR;
```

A more complete example for a simple HTTP client:

```
  my $client = IO::Socket::SSL->new(
 # where to connect
 PeerHost => "www.example.com",
 PeerPort => "https",

 # certificate verification - VERIFY_PEER is default
 SSL_verify_mode => SSL_VERIFY_PEER,

 # location of CA store
 # need only be given if default store should not be used
 SSL_ca_path => '/etc/ssl/certs', # typical CA path on Linux
 SSL_ca_file => '/etc/ssl/cert.pem', # typical CA file on BSD

 # or just use default path on system:
 IO::Socket::SSL::default_ca(), # either explicitly
 # or implicitly by not giving SSL_ca_*

 # easy hostname verification
 # It will use PeerHost as default name a verification
 # scheme as default, which is safe enough for most purposes.
 SSL_verifycn_name => 'foo.bar',
 SSL_verifycn_scheme => 'http',

 # SNI
 support - defaults to PeerHost
 SSL_hostname => 'foo.bar',
```

```
  ) or die "failed connect or ssl handshake: $!,$SSL_ERROR";

  # send and receive over SSL connection
  print $client "GET / HTTP/1.0\r\n\r\n";
  print <$client>;
```

And to do revocation checks with OCSP (only available with OpenSSL 1.0.0 or higher and L<Net::SSLeay> 1.59 or higher):

```
  # default will try OCSP stapling and check only leaf certificate
  my $client = IO::Socket::SSL->new($dst);

  # better yet: require checking of full chain
  my $client = IO::Socket::SSL->new(
 PeerAddr => $dst,
 SSL_ocsp_mode => SSL_OCSP_FULL_CHAIN,
  );

  # even better: make OCSP errors fatal
  # (this will probably fail with lots of sites because of bad OCSP setups)
  # also use common OCSP response cache
  my $ocsp_cache = IO::Socket::SSL::OCSP_Cache->new;
  my $client = IO::Socket::SSL->new(
 PeerAddr => $dst,
 SSL_ocsp_mode => SSL_OCSP_FULL_CHAIN|SSL_OCSP_FAIL_HARD,
 SSL_ocsp_cache => $ocsp_cache,
  );

  #
 disable OCSP stapling in case server has problems with it
  my $client = IO::Socket::SSL->new(
 PeerAddr => $dst,
 SSL_ocsp_mode => SSL_OCSP_NO_STAPLE,
  );

  # check any certificates which are not yet checked by OCSP stapling or
  # where we have already cached results. For your own resolving combine
  # $ocsp->requests with $ocsp->add_response(uri,response).
  my $ocsp = $client->ocsp_resolver();
  my $errors = $ocsp->resolve_blocking();
  if ($errors) {
 warn "OCSP verification failed: $errors";
 close($client);
  }
```

=head1 Basic SSL Server

A basic SSL server looks similar to other L<IO::Socket> servers, only that it

also contains settings for certificate and key:

```
  # simple server
  my $server = IO::Socket::SSL->new(
 # where to listen
 LocalAddr => '127.0.0.1',
 LocalPort => 8080,
 Listen => 10,

 # which certificate to offer
 # with SNI support there can be different certificates per hostname
 SSL_cert_file => 'cert.pem',
 SSL_key_file => 'key.pem',

 ) or die "failed to listen: $!";

  # accept client
  my $client = $server->accept or die
 "failed to accept or ssl handshake: $!,$SSL_ERROR";
```

This will automatically use a secure set of ciphers and SSL version and also supports Forward Secrecy with (Elliptic-Curve) Diffie-Hellmann Key Exchange.

If you are doing a forking or threading server, we recommend that you do the SSL handshake inside the new process/thread so that the master is free for new connections.
We recommend this because a client with improper or slow SSL handshake could make the server block in the handshake which would be bad to do on the listening socket:

```
  # inet server
  my $server = IO::Socket::INET->new(
 # where to listen
 LocalAddr => '127.0.0.1',
 LocalPort => 8080,
 Listen => 10,
  );

  # accept client
  my $client = $server->accept or die;

  # SSL upgrade client (in new process/thread)
  IO::Socket::SSL->start_SSL($client,
 SSL_server => 1,
 SSL_cert_file => 'cert.pem',
 SSL_key_file =>
 'key.pem',
  ) or die "failed to ssl handshake: $SSL_ERROR";
```

Like with normal sockets, neither forking nor threading servers scale well.
It is recommended to use non-blocking sockets instead, see
L</"Using Non-Blocking Sockets">

=head1 Common Usage Errors

This is a list of typical errors seen with the use of L<IO::Socket::SSL>:

=over 4

=item *

Disabling verification with C<SSL_verify_mode>.

As described in L</"Essential Information About SSL/TLS">, a proper
identification of the peer is essential and failing to verify makes
Man-In-The-Middle attacks possible.

Nevertheless, lots of scripts and even public modules or applications disable
verification, because it is probably the easiest way to make the thing work
and usually nobody notices any security problems anyway.

If the verification does not succeed with the default settings, one can do the
following:

=over 8

=item *

Make sure the needed CAs are in the store, maybe use C<SSL_ca_file> or
C<SSL_ca_path> to specify a different
 CA store.

=item *

If the validation fails because the certificate is self-signed and that's what
you expect, you can use the C<SSL_fingerprint> option to accept specific
leaf certificates by their certificate or pubkey fingerprint.

=item *

If the validation failed because the hostname does not match and you cannot
access the host with the name given in the certificate, you can use
C<SSL_verifycn_name> to specify the hostname you expect in the certificate.

=back

A common error pattern is also to disable verification if they found no CA
store (different modules look at different "default" places).
Because L<IO::Socket::SSL> is now able to provide a usable CA store on most
platforms (UNIX, Mac OSX and Windows) it is better to use the defaults provided
by L<IO::Socket::SSL>.
If necessary these can be checked with the C<default_ca> method.

=item *

Polling of SSL sockets (e.g. select, poll and other event loops).

If you sysread one byte on a normal socket it will result in a
 syscall to read
one byte. Thus, if more than one byte is available on the socket it will be kept
in the network stack of your OS and the next select or poll call will return the
socket as readable.
But, with SSL you don't deliver single bytes. Multiple data bytes are packaged
and encrypted together in an SSL frame. Decryption can only be done on the whole
frame, so a sysread for one byte actually reads the complete SSL frame from the
socket, decrypts it and returns the first decrypted byte. Further sysreads will
return more bytes from the same frame until all bytes are returned and the
next SSL frame will be read from the socket.

Thus, in order to decide if you can read more data (e.g. if sysread will block)
you must check if there are still data in the current SSL frame by calling
C<pending> and if there are no data pending you might check the underlying
socket with select or poll.
Another way might be if you try to sysread at least 16kByte all the time.
16kByte is the maximum size
 of an SSL frame and because sysread returns data
from only a single SSL frame you can guarantee that there are no pending
data.

Additionally, contrary to plain sockets the data delivered on the socket are
not necessarily application payload.
It might be a TLS handshake, it might just be the beginning of a TLS record or
it might be TLS session tickets which are send after the TLS handshake in TLS
1.3.
In such situations select will return that data are available for read since it
only looks at the plain socket.
A sysread on the IO::Socket::SSL socket will not return any data though since it
is an abstraction which only returns application data.
This causes the sysread to hang in case the socket was blocking or to return
an error with EAGAIN on non-blocking sockets.
Applications using select or similar should therefore set the socket to
non-blocking and also expect that the sysread might temporarily fail with
EAGAIN.

See also L</"Using Non-Blocking Sockets">.

=item *

Expecting exactly
 the same behavior as plain sockets.

IO::Socket::SSL tries to emulate the usual socket behavior as good as possible,
but full emulation can not be done. Specifically a read on the SSL socket might
also result in a write on the TCP socket or a write on the SSL socket might
result in a read on the TCP socket. Also C<accept> and B<close> on the SSL
socket will result in writing and reading data to the TCP socket too.

Especially the hidden writes might result in a connection reset if the
underlying TCP socket is already closed by the peer. Unless signal PIPE is
explicitly handled by the application this will usually result in the
application crashing. It is thus recommended to explicitly IGNORE signal PIPE so
that the errors get propagated as EPIPE instead of causing a crash of the
application.

=item *

Set 'SSL_version' or 'SSL_cipher_list' to a "better" value.

L<IO::Socket::SSL> tries to set these values to reasonable, secure values which
are compatible with the rest of the world.
But,
 there are some scripts or modules out there which tried to be smart and
get more secure or compatible settings.
Unfortunately, they did this years ago and never updated these values, so they
are still forced to do only 'TLSv1' (instead of also using TLSv12 or TLSv11).
Or they set 'HIGH' as the cipher list and thought they were secure, but did not
notice that 'HIGH' includes anonymous ciphers, e.g. without identification of
the peer.

So it is recommended to leave the settings at the secure defaults which
L<IO::Socket::SSL> sets and which get updated from time to time to
better fit the real world.

=item *

Make SSL settings inaccessible by the user, together with bad builtin settings.

Some modules use L<IO::Socket::SSL>, but don't make the SSL settings available
to the user. This is often combined with bad builtin settings or defaults (like
switching verification off).

Thus the user needs to hack around these restrictions by using

C<set_args_filter_hack> or similar.

=item *

Use
 of constants as strings.

Constants like C<SSL_VERIFY_PEER> or C<SSL_WANT_READ> should be used as constants and not be put inside quotes, because they represent numerical values.

=item *

Forking and handling the socket in parent and child.

A B<fork> of the process will duplicate the internal user space SSL state of the socket. If both master and child interact with the socket by using their own SSL state strange error messages will happen. Such interaction includes explicit or implicit B<close> of the SSL socket. To avoid this the socket should be explicitly closed with B<SSL_no_shutdown>.

=item *

Forking and executing a new process.

Since the SSL state is stored in user space it will be duplicated by a B<fork> but it will be lost when doing B<exec>. This means it is not possible to simply redirect stdin and stdout for the new process to the SSL socket by duplicating the relevant file handles. Instead explicitly exchanging plain data between child-process and SSL socket are needed.

=back

=head1
 Common Problems with SSL

SSL is a complex protocol with multiple implementations and each of these has their own quirks. While most of these implementations work together, it often gets problematic with older versions, minimal versions in load balancers, or plain wrong setups.

Unfortunately these problems are hard to debug.
Helpful for debugging are a knowledge of SSL internals, wireshark and the use of the debug settings of L<IO::Socket::SSL> and L<Net::SSLeay>, which can both be set with C<$IO::Socket::SSL::DEBUG>.
The following debugs levels are defined, but used not in any consistent way:

=over 4

=item *

0 - No debugging (default).

=item *

1 - Print out errors from L<IO::Socket::SSL> and ciphers from L<Net::SSLeay>.

=item *

2 - Print also information about call flow from L<IO::Socket::SSL> and progress information from L<Net::SSLeay>.

=item *

3 - Print also some data dumps from L<IO::Socket::SSL> and from L<Net::SSLeay>.

=back

Also, C<analyze-ssl.pl>
 from the ssl-tools repository at
L<https://github.com/noxxi/p5-ssl-tools> might be a helpful tool when debugging SSL problems, as do the C<openssl> command line tool and a check with a different SSL implementation (e.g. a web browser).

The following problems are not uncommon:

=over 4

=item *

Bad server setup: missing intermediate certificates.

It is a regular problem that administrators fail to include all necessary certificates into their server setup, e.g. everything needed to build the trust chain from the trusted root.
If they check the setup with the browser everything looks ok, because browsers work around these problems by caching any intermediate certificates and apply them to new connections if certificates are missing.

But, fresh browser profiles which have never seen these intermediates cannot fill in the missing certificates and fail to verify; the same is true with L<IO::Socket::SSL>.

=item *

Old versions of servers or load balancers which do not understand specific
 TLS
versions or croak on specific data.

From time to time one encounters an SSL peer, which just closes the connection inside the SSL handshake. This can usually be worked around by downgrading the SSL version, e.g. by setting C<SSL_version>. Modern Browsers usually deal with such servers by automatically downgrading the SSL version and repeat the connection attempt until they succeed.

Worse servers do not close the underlying TCP connection but instead just drop the relevant packet. This is harder to detect because it looks like a stalled connection. But downgrading the SSL version often works here too.

A cause of such problems are often load balancers or security devices, which have hardware acceleration and only a minimal (and less robust) SSL stack. They can often be detected because they support much fewer ciphers than other implementations.

=item *

Bad or old OpenSSL versions.

L<IO::Socket::SSL> uses OpenSSL with the help of the L<Net::SSLeay> library. It is recommend
 to have a recent version of this library, because it has more
features and usually fewer known bugs.

=item *

Validation of client certificates fail.

Make sure that the purpose of the certificate allows use as ssl client (check with C<< openssl x509 -purpose >>, that the necessary root certificate is in the path specified by C<SSL_ca*> (or the default path) and that any intermediate certificates needed to build the trust chain are sent by the client.

=item *

Validation of self-signed certificate fails even if it is given with C<SSL_ca*> argument.

The C<SSL_ca*> arguments do not give a general trust store for arbitrary certificates but only specify a store for CA certificates which then can be used to verify other certificates. This especially means that certificates which are not a CA get simply ignored, notably self-signed certificates which do not also have the CA-flag set.

This behavior of OpenSSL differs from the more general trust-store concept which
can be found in browsers
 and where it is possible to simply added arbitrary
certificates (CA or not) as trusted.

=back

=head1 Using Non-Blocking Sockets

If you have a non-blocking socket, the expected behavior on read, write, accept
or connect is to set C<$!> to EWOULDBLOCK if the operation cannot be completed
immediately. Note that EWOULDBLOCK is the same as EAGAIN on UNIX systems, but
is different on Windows.

With SSL, handshakes might occur at any time, even within an established
connection. In these cases it is necessary to finish the handshake before
you can read or write data. This might result in situations where you want to
read but must first finish the write of a handshake or where you want to write
but must first finish a read.
In these cases C<$!> is set to EAGAIN like expected, and additionally
C<$SSL_ERROR> is set to either SSL_WANT_READ or SSL_WANT_WRITE.
Thus if you get EWOULDBLOCK on a SSL socket you must check C<$SSL_ERROR> for
SSL_WANT_* and adapt your event mask accordingly.

Using
 readline on non-blocking sockets does not make much sense and I would
advise against using it.
And, while the behavior is not documented for other L<IO::Socket> classes, it
will try to emulate the behavior seen there, e.g. to return the received data
instead of blocking, even if the line is not complete. If an unrecoverable error
occurs it will return nothing, even if it already received some data.

Also, I would advise against using C<accept> with a non-blocking SSL object
because it might block and this is not what most would expect. The reason for
this is that C<accept> on a non-blocking TCP socket (e.g. L<IO::Socket::IP>,
L<IO::Socket::INET>..) results in a new TCP socket which does not inherit the
non-blocking behavior of the master socket. And thus, the initial SSL handshake
on the new socket inside C<IO::Socket::SSL::accept> will be done in a blocking
way. To work around this you are safer by doing a TCP accept and later upgrade the
TCP socket in a non-blocking way with C<start_SSL>
 and C<accept_SSL>.

```
  my $cl = IO::Socket::SSL->new($dst);
  $cl->blocking(0);
  my $sel = IO::Select->new($cl);
```

```
  while (1) {
# with SSL a call for reading n bytes does not result in reading of n
# bytes from the socket, but instead it must read at least one full SSL
# frame. If the socket has no new bytes, but there are unprocessed data
# from the SSL frame can_read will block!

# wait for data on socket
$sel->can_read();

# new data on socket or eof
READ:
# this does not read only 1 byte from socket, but reads the complete SSL
# frame and then just returns one byte. On subsequent calls it than
# returns more byte of the same SSL frame until it needs to read the
# next frame.
my $n = sysread( $cl,my $buf,1);
if ( ! defined $n ) {
    die $! if not ${EWOULDBLOCK};
    next if $SSL_ERROR == SSL_WANT_READ;
    if ( $SSL_ERROR == SSL_WANT_WRITE ) {
 # need to write data on renegotiation
 $sel->can_write;
 next;
    }
    die "something went wrong: $SSL_ERROR";
}
elsif ( ! $n ) {
    last; # eof
} else {
    # read next bytes
    # we might have still data within the current SSL frame
    # thus first process these data instead of waiting on the underlying
    # socket object
    goto READ if $cl->pending;    # goto sysread
    next;                         # goto $sel->can_read
}
  }
```

Additionally there are differences to plain sockets when using select, poll,
kqueue or similar technologies to get notified if data are available.
Relying only on these calls is not sufficient in all cases since unread data
might be internally buffered in the SSL stack. To detect such buffering
B<pending()> need to be used. Alternatively the buffering can be avoided by using
B<sysread> with the maximum size of an SSL frame. See L</"Common Usage Errors">
for details.

=head1 Advanced Usage

=head2 SNI Support

Newer extensions to SSL can distinguish between multiple hostnames on the same
IP address using Server Name Indication (SNI).

Support
 for SNI on the client side was added somewhere in the OpenSSL 0.9.8
series, but with 1.0 a bug was fixed when the server could not decide about
its hostname. Therefore client side SNI is only supported with OpenSSL 1.0 or
higher in L<IO::Socket::SSL>.
With a supported version, SNI is used automatically on the client side, if it
can determine the hostname from C<PeerAddr> or C<PeerHost> (which are synonyms
in the underlying IO::Socket:: classes and thus should never be set both or at
least not to different values).
On unsupported OpenSSL versions it will silently not use SNI.
The hostname can also be given explicitly given with C<SSL_hostname>, but in
this case it will throw in error, if SNI is not supported.
To check for support you might call C<< IO::Socket::SSL->can_client_sni() >>.

On the server side, earlier versions of OpenSSL are supported, but only together
with L<Net::SSLeay> version >= 1.50.
To check for support you might call C<< IO::Socket::SSL->can_server_sni() >>.
If
 server side SNI is supported, you might specify different certificates per
host with C<SSL_cert*> and C<SSL_key*>, and check the requested name using
C<get_servername>.

=head2 Talk Plain and SSL With The Same Socket

It is often required to first exchange some plain data and then upgrade the
socket to SSL after some kind of STARTTLS command. Protocols like FTPS even
need a way to downgrade the socket again back to plain.

The common way to do this would be to create a normal socket and use C<start_SSL>
to upgrade and stop_SSL to downgrade:

```
  my $sock = IO::Socket::INET->new(...) or die $!;
  ... exchange plain data on $sock until starttls command ...
  IO::Socket::SSL->start_SSL($sock,%sslargs) or die $SSL_ERROR;
  ... now $sock is an IO::Socket::SSL object ...
  ... exchange data with SSL on $sock until stoptls command ...
  $sock->stop_SSL or die $SSL_ERROR;
  ... now $sock is again an IO::Socket::INET object ...
```

But, lots of modules just derive directly from L<IO::Socket::INET>.
While

this base class can be replaced with L<IO::Socket::SSL>, these modules cannot
easily support different base classes for SSL and plain data and switch between
these classes on a starttls command.

To help in this case, L<IO::Socket::SSL> can be reduced to a plain socket on
startup, and connect_SSL/accept_SSL/start_SSL can be used to enable SSL and
C<stop_SSL> to talk plain again:

```
  my $sock = IO::Socket::SSL->new(
 PeerAddr => ...
 SSL_startHandshake => 0,
 %sslargs
  ) or die $!;
  ... exchange plain data on $sock until starttls command ...
  $sock->connect_SSL or die $SSL_ERROR;
  ... now $sock is an IO::Socket::SSL object ...
  ... exchange data with SSL on $sock until stoptls command ...
  $sock->stop_SSL or die $SSL_ERROR;
  ... $sock is still an IO::Socket::SSL object ...
  ... but data exchanged again in plain ...
```

=head1 Integration Into Own Modules

L<IO::Socket::SSL> behaves similarly to other L<IO::Socket> modules and thus could
be integrated
in the same way, but you have to take special care when using
non-blocking I/O (like for handling timeouts) or using select or poll.
Please study the documentation on how to deal with these differences.

Also, it is recommended to not set or touch most of the C<SSL_*> options, so
that they keep their secure defaults. It is also recommended to let the user
override these SSL specific settings without the need of global settings or hacks
like C<set_args_filter_hack>.

The notable exception is C<SSL_verifycn_scheme>.
This should be set to the hostname verification scheme required by the module or
protocol.

=head1 Description Of Methods

L<IO::Socket::SSL> inherits from another L<IO::Socket> module.
The choice of the super class depends on the installed modules:

=over 4

=item *

If L<IO::Socket::IP> with at least version 0.20 is installed it will use this
module as super class, transparently providing IPv6 and IPv4 support.

=item *

If L<IO::Socket::INET6> is installed it will
 use this module as super class,
transparently providing IPv6 and IPv4 support.

=item *

Otherwise it will fall back to L<IO::Socket::INET>, which is a perl core module.
With L<IO::Socket::INET> you only get IPv4 support.

=back

Please be aware that with the IPv6 capable super classes, it will look first
for the IPv6 address of a given hostname. If the resolver provides an IPv6
address, but the host cannot be reached by IPv6, there will be no automatic
fallback to IPv4.
To avoid these problems you can enforce IPv4 for a specific socket by
using the C<Domain> or C<Family> option with the value AF_INET as described in
L<IO::Socket::IP>. Alternatively you can enforce IPv4 globally by loading
L<IO::Socket::SSL> with the option 'inet4', in which case it will use the IPv4
only class L<IO::Socket::INET> as the super class.

L<IO::Socket::SSL> will provide all of the methods of its super class, but
sometimes it will override them to match the behavior expected from SSL or to
provide additional
 arguments.

The new or changed methods are described below, but please also read the
section about SSL specific error handling.

=over 4

=item Error Handling

If an SSL specific error occurs, the global variable C<$SSL_ERROR> will be set.
If the error occurred on an existing SSL socket, the method C<errstr> will
give access to the latest socket specific error.
Both C<$SSL_ERROR> and the C<errstr> method give a dualvar similar to C<$!>, e.g.
providing an error number in numeric context or an error description in string
context.

=item B<new(...)>

Creates a new L<IO::Socket::SSL> object. You may use all the friendly options
that came bundled with the super class (e.g. L<IO::Socket::IP>,
L<IO::Socket::INET>, ...) plus (optionally) the ones described below.
If you don't specify any SSL related options it will do its best in using
secure defaults, e.g. choosing good ciphers, enabling proper verification, etc.

=over 2

=item SSL_server

Set this option to a true value if the socket
 should be used as a server.
If this is not explicitly set it is assumed if the C<Listen> parameter is given
when creating the socket.

=item SSL_hostname

This can be given to specify the hostname used for SNI, which is needed if you
have multiple SSL hostnames on the same IP address. If not given it will try to
determine the hostname from C<PeerAddr>, which will fail if only an IP was given or if
this argument is used within C<start_SSL>.

If you want to disable SNI, set this argument to ''.

Currently only supported for the client side and will be ignored for the server
side.

See section "SNI Support" for details of SNI the support.

=item SSL_startHandshake

If this option is set to false (defaults to true) it will not start the SSL
handshake yet. This has to be done later with C<accept_SSL> or C<connect_SSL>.
Before the handshake is started read/write/etc. can be used to exchange plain
data.

=item SSL_keepSocketOnError

If this option is set to true (defaults to false) it will
 not close the
underlying TCP socket on errors. In most cases there is no real use for this
behavior since both sides of the TCP connection will probably have a
different idea of the current state of the connection.

=item SSL_ca | SSL_ca_file | SSL_ca_path

Usually you want to verify that the peer certificate has been signed by a
trusted certificate authority. In this case you should use this option to
specify the file (C<SSL_ca_file>) or directory (C<SSL_ca_path>) containing the
certificateZ<>(s) of the trusted certificate authorities.

C<SSL_ca_path> can also be an array or a string containing multiple path, where
the path are separated by the platform specific separator. This separator is
C<;> on DOS, Windows, Netware, C<,> on VMS and C<:> for all the other systems.
If multiple path are given at least one of these must be accessible.

You can also give a list of X509* certificate handles (like you get from
L<Net::SSLeay> or L<IO::Socket::SSL::Utils::PEM_xxx2cert>) with C<SSL_ca>. These
will
 be added to the CA store before path and file and thus take precedence.
If neither SSL_ca, nor SSL_ca_file or SSL_ca_path are set it will use
C<default_ca()> to determine the user-set or system defaults.
If you really don't want to set a CA set SSL_ca_file or SSL_ca_path to
C<\undef> or SSL_ca to an empty list. (unfortunately C<''> is used by some
modules using L<IO::Socket::SSL> when CA is not explicitly given).

=item SSL_client_ca | SSL_client_ca_file

If verify_mode is VERIFY_PEER on the server side these options can be used to
set the list of acceptable CAs for the client. This way the client can select
they required certificate from a list of certificates.
The value for these options is similar to C<SSL_ca> and C<SSL_ca_file>.

=item SSL_fingerprint

Sometimes you have a self-signed certificate or a certificate issued by an
unknown CA and you really want to accept it, but don't want to disable
verification at all. In this case you can specify the fingerprint of the
certificate
 as C<'algo$hex_fingerprint'>. C<algo> is a fingerprint algorithm
supported by OpenSSL, e.g. 'sha1','sha256'... and C<hex_fingerprint> is the
hexadecimal representation of the binary fingerprint. Any colons inside the
hex string will be ignored.

If you want to use the fingerprint of the pubkey inside the certificate instead
of the certificate use the syntax C<'algopubhex_fingerprint'> instead.
To get the fingerprint of an established connection you can use
C<get_fingerprint>.

It is also possible to skip C<algo$>, i.e. only specify the fingerprint. In
this case the likely algorithms will be automatically detected based on the
length of the digest string.

You can specify a list of fingerprints in case you have several acceptable certificates.
If a fingerprint matches the topmost (i.e. leaf) certificate no additional validations can make the verification fail.

=item SSL_cert_file | SSL_cert | SSL_key_file | SSL_key

If you create a server you usually need to specify a server certificate which
should be verified by the client. Same is true for client certificates, which should be verified by the server.
The certificate can be given as a file with SSL_cert_file or as an internal representation of an X509* object (like you get from L<Net::SSLeay> or L<IO::Socket::SSL::Utils::PEM_xxx2cert>) with SSL_cert.
If given as a file it will automatically detect the format.
Supported file formats are PEM, DER and PKCS#12, where PEM and PKCS#12 can contain the certificate and the chain to use, while DER can only contain a single certificate.

If given as a list of X509* please note, that the all the chain certificates (e.g. all except the first) will be "consumed" by openssl and will be freed if the SSL context gets destroyed - so you should never free them yourself. But the servers certificate (e.g. the first) will not be consumed by openssl and thus must be freed by the application.

For each certificate a key is need, which can either be given as a file with SSL_key_file
or as an internal representation of an EVP_PKEY* object with SSL_key (like you get from L<Net::SSLeay> or L<IO::Socket::SSL::Utils::PEM_xxx2key>).
If a key was already given within the PKCS#12 file specified by SSL_cert_file it will ignore any SSL_key or SSL_key_file.
If no SSL_key or SSL_key_file was given it will try to use the PEM file given with SSL_cert_file again, maybe it contains the key too.

If your SSL server should be able to use different certificates on the same IP address, depending on the name given by SNI, you can use a hash reference instead of a file with C<<hostname => cert_file>>.

If your SSL server should be able to use both RSA and ECDSA certificates for the same domain/IP a similar hash reference like with SNI is given. The domain names used to specify the additional certificates should be C<hostname%whatever>, i.e. C<hostname%ecc> or similar. This needs at least OpenSSL 1.0.2. To let the server pick the certificate based on the clients cipher preference C<SSL_honor_cipher_order>
should be set to false.

In case certs and keys are needed but not given it might fall back to builtin

defaults, see "Defaults for Cert, Key and CA".

Examples:

```
SSL_cert_file => 'mycert.pem',
SSL_key_file => 'mykey.pem',

SSL_cert_file => {
  "foo.example.org" => 'foo-cert.pem',
  "foo.example.org%ecc" => 'foo-ecc-cert.pem',
  "bar.example.org" => 'bar-cert.pem',
  # used when nothing matches or client does not support SNI
  " => 'default-cert.pem',
  '%ecc' => 'default-ecc-cert.pem',
},
SSL_key_file => {
  "foo.example.org" => 'foo-key.pem',
  "foo.example.org%ecc" => 'foo-ecc-key.pem',
  "bar.example.org" => 'bar-key.pem',
  # used when nothing matches or client does not support SNI
  " => 'default-key.pem',
  '%ecc' => 'default-ecc-key.pem',
}
```

=item SSL_passwd_cb

If your private key is encrypted, you might not want the default password prompt from Net::SSLeay. This option takes a reference to a subroutine that should return
the password required to decrypt your private key.

=item SSL_use_cert

If this is true, it forces IO::Socket::SSL to use a certificate and key, even if you are setting up an SSL client. If this is set to 0 (the default), then you will only need a certificate and key if you are setting up a server.

SSL_use_cert will implicitly be set if SSL_server is set.
For convenience it is also set if it was not given but a cert was given for use (SSL_cert_file or similar).

=item SSL_version

Sets the version of the SSL protocol used to transmit data.
'SSLv23' uses a handshake compatible with SSL2.0, SSL3.0 and TLS1.x, while 'SSLv2', 'SSLv3', 'TLSv1', 'TLSv1_1', 'TLSv1_2', or 'TLSv1_3' restrict handshake and protocol to the specified version.

All values are case-insensitive. Instead of 'TLSv1_1', 'TLSv1_2', and 'TLSv1_3' one can also use 'TLSv11', 'TLSv12', and 'TLSv13'. Support for 'TLSv1_1', 'TLSv1_2', and 'TLSv1_3' requires recent versions of Net::SSLeay and openssl.

Independent from the
 handshake format you can limit to set of accepted SSL
versions by adding !version separated by ':'.

The default SSL_version is 'SSLv23:!SSLv3:!SSLv2' which means, that the handshake format is compatible to SSL2.0 and higher, but that the successful handshake is limited to TLS1.0 and higher, that is no SSL2.0 or SSL3.0 because both of these versions have serious security issues and should not be used anymore.
You can also use !TLSv1_1 and !TLSv1_2 to disable TLS versions 1.1 and 1.2 while still allowing TLS version 1.0.

Setting the version instead to 'TLSv1' might break interaction with older clients, which need and SSL2.0 compatible handshake. On the other side some clients just close the connection when they receive a TLS version 1.1 request. In this case setting the version to 'SSLv23:!SSLv2:!SSLv3:!TLSv1_1:!TLSv1_2' might help.

=item SSL_cipher_list

If this option is set the cipher list for the connection will be set to the given value, e.g. something like 'ALL:!LOW:!EXP:!aNULL'.
 Look into the OpenSSL
documentation (L<https://www.openssl.org/docs/manmaster/man1/openssl-ciphers.html#CIPHER-STRINGS>) for more details.

Unless you fail to contact your peer because of no shared ciphers it is recommended to leave this option at the default setting. The default setting prefers ciphers with forward secrecy, disables anonymous authentication and disables known insecure ciphers like MD5, DES etc. This gives a grade A result at the tests of SSL Labs.
To use the less secure OpenSSL builtin default (whatever this is) set SSL_cipher_list to ''.

In case different cipher lists are needed for different SNI hosts a hash can be given with the host as key and the cipher suite as value, similar to B<SSL_cert*>.

=item SSL_honor_cipher_order

If this option is true the cipher order the server specified is used instead of the order proposed by the client. This option defaults to true to make use of our secure cipher list setting.

=item SSL_dh_file

To create a server which provides
 forward secrecy you need to either give the DH
parameters or (better, because faster) the ECDH curve. This setting cares
about DH parameters.

To support non-elliptic Diffie-Hellman key exchange a suitable file needs to
be given here or the SSL_dh should be used with an appropriate value.
See dhparam command in openssl for more information.

If neither C<SSL_dh_file> nor C<SSL_dh> are set a builtin DH parameter with a
length of 2048 bit is used to offer DH key exchange by default. If you don't
want this (e.g. disable DH key exchange) explicitly set this or the C<SSL_dh>
parameter to undef.

=item SSL_dh

Like SSL_dh_file, but instead of giving a file you use a preloaded or generated
DH*.

=item SSL_ecdh_curve

To create a server which provides forward secrecy you need to either give the DH
parameters or (better, because faster) the ECDH curve. This setting cares
about the ECDH curve(s).

To support Elliptic Curve Diffie-Hellmann key exchange the OID or NID of at
least one suitable
 curve needs to be provided here.

With OpenSSL 1.1.0+ this parameter defaults to C<auto>, which means that it
lets OpenSSL pick the best settings. If support for CTX_set_ecdh_auto is
implemented in Net::SSLeay (needs at least version 1.86) it will use this to
implement the same default. Otherwise it will default to C<prime256v1>
(builtin of OpenSSL) in order to offer ECDH key exchange by default.

If setting groups or curves is supported by Net::SSLeay (needs at least
version 1.86) then multiple curves can be given here in the order of the
preference, i.e. C<P-521:P-384:P-256>. When used at the client side this
will include the supported curves as extension in the TLS handshake.

If you don't want to have ECDH key exchange this could be set to undef or
set C<SSL_ciphers> to exclude all of these ciphers.

You can check if ECDH support is available by calling
C<< IO::Socket::SSL->can_ecdh >>.

=item SSL_verify_mode

This option sets the verification mode for the peer certificate.
You
may combine SSL_VERIFY_PEER (verify_peer), SSL_VERIFY_FAIL_IF_NO_PEER_CERT
(fail verification if no peer certificate exists; ignored for clients),
SSL_VERIFY_CLIENT_ONCE (verify client once; ignored for clients).
See OpenSSL man page for SSL_CTX_set_verify for more information.

The default is SSL_VERIFY_NONE for server (e.g. no check for client
certificate) and SSL_VERIFY_PEER for client (check server certificate).

=item SSL_verify_callback

If you want to verify certificates yourself, you can pass a sub reference along
with this parameter to do so. When the callback is called, it will be passed:

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=item 1.
a true/false value that indicates what OpenSSL thinks of the certificate,

=item 2.
a C-style memory address of the certificate store,

=item 3.
a string containing the certificate's issuer attributes and owner attributes,
and

=item 4.
a string containing any errors encountered (0 if no errors).

=item 5.
a C-style memory address of the peer's own certificate (convertible
to
PEM form with Net::SSLeay::PEM_get_string_X509()).

=item 6.
The depth of the certificate in the chain. Depth 0 is the leaf certificate.

=back

The function should return 1 or 0, depending on whether it thinks the
certificate is valid or invalid. The default is to let OpenSSL do all of the
busy work.

The callback will be called for each element in the certificate chain.

See the OpenSSL documentation for SSL_CTX_set_verify for more information.

=item SSL_verifycn_scheme

The scheme is used to correctly verify the identity inside the certificate
by using the hostname of the peer.
See the information about the verification schemes in B<verify_hostname>.

If you don't specify a scheme it will use 'default', but only complain loudly if
the name verification fails instead of letting the whole certificate
verification fail. THIS WILL CHANGE, e.g. it will let the certificate
verification fail in the future if the hostname does not match the certificate
!!!! To override the name used
 in verification use B<SSL_verifycn_name>.

The scheme 'default' is a superset of the usual schemes, which will accept the
hostname in common name and subjectAltName and allow wildcards everywhere.
While using this scheme is way more secure than no name verification at all you
better should use the scheme specific to your application protocol, e.g. 'http',
'ftp'...

If you are really sure, that you don't want to verify the identity using the
hostname you can use 'none' as a scheme. In this case you'd better have
alternative forms of verification, like a certificate fingerprint or do a manual
verification later by calling B<verify_hostname> yourself.

=item SSL_verifycn_publicsuffix

This option is used to specify the behavior when checking wildcards certificates
for public suffixes, e.g. no wildcard certificates for *.com or *.co.uk should
be accepted, while *.example.com or *.example.co.uk is ok.

If not specified it will simply use the builtin default of
L<IO::Socket::SSL::PublicSuffix>,
 you can create another object with
from_string or from_file of this module.

To disable verification of public suffix set this option to C<">.

=item SSL_verifycn_name

Set the name which is used in verification of hostname. If SSL_verifycn_scheme
is set and no SSL_verifycn_name is given it will try to use SSL_hostname or
PeerHost and PeerAddr settings and fail if no name can be determined.
If SSL_verifycn_scheme is not set it will use a default scheme and warn if it
cannot determine a hostname, but it will not fail.

Using PeerHost or PeerAddr works only if you create the connection directly
with C<< IO::Socket::SSL->new >>, if an IO::Socket::INET object is upgraded
with B<start_SSL> the name has to be given in B<SSL_verifycn_name> or
B<SSL_hostname>.

=item SSL_check_crl

If you want to verify that the peer certificate has not been revoked
by the signing authority, set this value to true. OpenSSL will search
for the CRL in your SSL_ca_path, or use the file specified by
SSL_crl_file.
  See the Net::SSLeay documentation for more details.
Note that this functionality appears to be broken with OpenSSL <
v0.9.7b, so its use with lower versions will result in an error.

=item SSL_crl_file

If you want to specify the CRL file to be used, set this value to the
pathname to be used. This must be used in addition to setting
SSL_check_crl.

=item SSL_ocsp_mode

Defines how certificate revocation is done using OCSP (Online Status Revocation
Protocol). The default is to send a request for OCSP stapling to the server and
if the server sends an OCSP response back the result will be used.

Any other OCSP checking needs to be done manually with C<ocsp_resolver>.

The following flags can be combined with C<|>:

=over 8

=item SSL_OCSP_NO_STAPLE

Don't ask for OCSP stapling.
This is the default if SSL_verify_mode is VERIFY_NONE.

=item SSL_OCSP_TRY_STAPLE

Try OCSP stapling, but don't complain if it gets no stapled response back.
This is the default if SSL_verify_mode is VERIFY_PEER
 (the default).

=item SSL_OCSP_MUST_STAPLE

Consider it a hard error, if the server does not send a stapled OCSP response
back. Most servers currently send no stapled OCSP response back.

=item SSL_OCSP_FAIL_HARD

Fail hard on response errors, default is to fail soft like the browsers do.
Soft errors mean, that the OCSP response is not usable, e.g. no response,
error response, no valid signature etc.
Certificate revocations inside a verified response are considered hard errors
in any case.

Soft errors inside a stapled response are never considered hard, e.g. it is
expected that in this case an OCSP request will be send to the responsible
OCSP responder.

=item SSL_OCSP_FULL_CHAIN

This will set up the C<ocsp_resolver> so that all certificates from the peer
chain will be checked, otherwise only the leaf certificate will be checked
against revocation.

=back

=item SSL_ocsp_staple_callback

If this callback is defined, it will be called with the SSL object and the OCSP
response
 handle obtained from the peer, e.g. C<<$cb->($ssl,$resp)>>.
If the peer did not provide a stapled OCSP response the function will be called
with C<$resp=undef>.
Because the OCSP response handle is no longer valid after leaving this function
it should not by copied or freed. If access to the response is necessary after
leaving this function it can be serialized with
C<Net::SSLeay::i2d_OCSP_RESPONSE>.

If no such callback is provided, it will use the default one, which verifies the
response and uses it to check if the certificate(s) of the connection got
revoked.

=item SSL_ocsp_cache

With this option a cache can be given for caching OCSP responses, which could
be shared between different SSL contexts. If not given a cache specific to the
SSL context only will be used.

You can either create a new cache with
C<< IO::Socket::SSL::OCSP_Cache->new([size]) >> or implement your own cache,
which needs to have methods C<put($key,\%entry)> and C<get($key)> (returning
C<\%entry>) where entry is

the hash representation of the OCSP response with
fields like C<nextUpdate>. The default implementation of the cache will consider
responses valid as long as C<nextUpdate> is less then the current time.

=item SSL_reuse_ctx

If you have already set the above options for a previous instance of
IO::Socket::SSL, then you can reuse the SSL context of that instance by passing
it as the value for the SSL_reuse_ctx parameter. You may also create a
new instance of the IO::Socket::SSL::SSL_Context class, using any context
options that you desire without specifying connection options, and pass that
here instead.

If you use this option, all other context-related options that you pass
in the same call to new() will be ignored unless the context supplied was
invalid. Note that, contrary to versions of IO::Socket::SSL below v0.90, a
global SSL context will not be implicitly used unless you use the
set_default_context() function.

=item SSL_create_ctx_callback

With this callback you can make individual
settings to the context after it
got created and the default setup was done.
The callback will be called with the CTX object from Net::SSLeay as the single
argument.

Example for limiting the server session cache size:

```
SSL_create_ctx_callback => sub {
    my $ctx = shift;
    Net::SSLeay::CTX_sess_set_cache_size($ctx,128);
}
```

=item SSL_session_cache_size

If you make repeated connections to the same host/port and the SSL renegotiation
time is an issue, you can turn on client-side session caching with this option
by specifying a positive cache size. For successive connections, pass the
SSL_reuse_ctx option to the new() calls (or use set_default_context()) to make
use of the cached sessions. The session cache size refers to the number of
unique host/port pairs that can be stored at one time; the oldest sessions in
the cache will be removed if new ones are added.

This option does not effect the session cache a server has for it's clients,
e.g. it does not affect SSL objects
with SSL_server set.

Note that session caching with TLS 1.3 needs at least Net::SSLeay 1.86.

=item SSL_session_cache

Specifies session cache object which should be used instead of creating a new.
Overrules SSL_session_cache_size.
This option is useful if you want to reuse the cache, but not the rest of
the context.

A session cache object can be created using
C<< IO::Socket::SSL::Session_Cache->new(cachesize) >>.

Use set_default_session_cache() to set a global cache object.

=item SSL_session_key

Specifies a key to use for lookups and inserts into client-side session cache.
Per default ip:port of destination will be used, but sometimes you want to
share the same session over multiple ports on the same server (like with FTPS).

=item SSL_session_id_context

This gives an id for the servers session cache. It's necessary if you want
clients to connect with a client certificate. If not given but SSL_verify_mode
specifies the need for client certificate a context unique id will
be picked.

=item SSL_error_trap

When using the accept() or connect() methods, it may be the case that the
actual socket connection works but the SSL negotiation fails, as in the case of
an HTTP client connecting to an HTTPS server. Passing a subroutine ref attached
to this parameter allows you to gain control of the orphaned socket instead of
having it be closed forcibly.
The subroutine, if called, will be passed two parameters:
a reference to the socket on which the SSL negotiation failed and the full
text of the error message.

=item SSL_npn_protocols

If used on the server side it specifies list of protocols advertised by SSL
server as an array ref, e.g. ['spdy/2','http1.1'].
On the client side it specifies the protocols offered by the client for NPN
as an array ref.
See also method C<next_proto_negotiated>.

Next Protocol Negotiation (NPN) is available with Net::SSLeay 1.46+ and
openssl-1.0.1+. NPN is unavailable in TLSv1.3 protocol.

To check support you might call C<< IO::Socket::SSL->can_npn()
>>.
If you use this option with an unsupported Net::SSLeay/OpenSSL it will
throw an error.

=item SSL_alpn_protocols

If used on the server side it specifies list of protocols supported by the SSL
server as an array ref, e.g. ['http/2.0', 'spdy/3.1','http/1.1'].
On the client side it specifies the protocols advertised by the client for ALPN
as an array ref.
See also method C<alpn_selected>.

Application-Layer Protocol Negotiation (ALPN) is available with Net::SSLeay
1.56+ and openssl-1.0.2+. More details about the extension are in RFC7301. To
check support you might call C<< IO::Socket::SSL->can_alpn() >>. If you use
this option with an unsupported Net::SSLeay/OpenSSL it will throw an error.

Note that some client implementations may encounter problems if both NPN and
ALPN are specified. Since ALPN is intended as a replacement for NPN, try
providing ALPN protocols then fall back to NPN if that fails.

=item SSL_ticket_keycb => [$sub,$data] | $sub

This is a callback used
for stateless session reuse (Session Tickets, RFC 5077).

This callback will be called as C<< $sub->($data,[$key_name]) >> where C<$data>
is the argument given to SSL_ticket_keycb (or undef) and C<$key_name> depends
on the mode:

=over 8

=item encrypt ticket

If a ticket needs to be encrypted the callback will be called without
C<$key_name>. In this case it should return C<($current_key,$current_key_name>)
where C<$current_key> is the current key (32 byte random data) and
C<$current_key_name> the name associated with this key (exactly 16 byte). This
C<$current_key_name> will be incorporated into the ticket.

=item decrypt ticket

If a ticket needs to be decrypted the callback will be called with C<$key_name>
as found in the ticket. It should return C<($key,$current_key_name>) where
C<$key> is the key associated with the given C<$key_name> and
C<$current_key_name> the name associated with the currently active key.
If C<$current_key_name> is different from the given C<$key_name> the

callback
will be called again to re-encrypt the ticket with the currently active key.

If no key can be found which matches the given C<$key_name> then this function should return nothing (empty list).

This mechanism should be used to limit the life time for each key encrypting the ticket. Compromise of a ticket encryption key might lead to decryption of SSL sessions which used session tickets protected by this key.

=back

Example:

```
  Net::SSLeay::RAND_bytes(my $oldkey,32);
  Net::SSLeay::RAND_bytes(my $newkey,32);
  my $oldkey_name = pack("a16",'oldsecret');
  my $newkey_name = pack("a16",'newsecret');

  my @keys = (
    [ $newkey_name, $newkey ], # current active key
    [ $oldkey_name, $oldkey ], # already expired
  );

  my $keycb = [ sub {
    my ($mykeys,$name) = @_;

    # return (current_key, current_key_name) if no name given
    return ($mykeys->[0][1],$mykeys->[0][0]) if ! $name;

    # return (matching_key, current_key_name) if we find a
 key matching
    # the given name
    for(my $i = 0; $i<@$mykeys; $i++) {
   next if $name ne $mykeys->[$i][0];
   return ($mykeys->[$i][1],$mykeys->[0][0]);
    }

    # no matching key found
    return;
  },\@keys ];

  my $srv = IO::Socket::SSL->new(..., SSL_ticket_keycb => $keycb);
```

=item SSL_mode_release_buffers 1|0

This enables or disables the SSL_MODE_RELEASE_BUFFERS option on the SSL object. With this option the read buffer will be released after each SSL_read but will

need to be reallocated for each new SSL_read. If memory usage is a concern this might save lots of memory in the mean time though, about 34k per idle SSL connection according to the documentation in SSL_CTX_set_mode(3ssl).

=back

=item B<accept>

This behaves similar to the accept function of the underlying socket class, but additionally does the initial SSL handshake. But because the underlying socket class does return a blocking file handle even when accept is called on a non-blocking socket,
the SSL handshake on the new file object will be done in a blocking way. Please see the section about non-blocking I/O for details.
If you don't like this behavior you should do accept on the TCP socket and then upgrade it with C<start_SSL> later.

=item B<connect(...)>

This behaves similar to the connect function but also does an SSL handshake. Because you cannot give SSL specific arguments to this function, you should better either use C<new> to create a connect SSL socket or C<start_SSL> to upgrade an established TCP socket to SSL.

=item B<close(...)>

Contrary to a close for a simple INET socket a close in SSL also mandates a proper shutdown of the SSL part. This is done by sending a close notify message by both peers.

A naive implementation would thus wait until it receives the close notify message from the peer - which conflicts with the commonly expected semantic that a close will not block. The default behavior is thus to only send a close notify but not wait for the close notify of the peer. If this is required C<SSL_fast_shutdown> need to be explicitly set to false.

There are also cases where a SSL shutdown should not be done at all. This is true for example when forking to let a child deal with the socket and closing the socket in the parent process. A naive explicit C<close> or an implicit close when destroying the socket in the parent would send a close notify to the peer which would make the SSL socket in the client process unusable. In this case an explicit C<close> with C<SSL_no_shutdown> set to true should be done in the parent process.

For more details and other arguments see C<stop_SSL> which gets called from C<close> to shutdown the SSL state of the socket.

=item B<sysread(BUF, LEN, [OFFSET])>

This function behaves from the outside the same as B<sysread> in other
L<IO::Socket> objects, e.g. it returns at most LEN bytes of data.
But in reality it reads not only LEN bytes from the underlying socket, but at
a single SSL frame. It then
returns up to LEN bytes it decrypted from this SSL
frame. If the frame contained more data than requested it will return only LEN
data, buffer the rest and return it on further read calls.
This means, that it might be possible to read data, even if the underlying
socket is not readable, so using poll or select might not be sufficient.

sysread will only return data from a single SSL frame, e.g. either the pending
data from the already buffered frame or it will read a frame from the underlying
socket and return the decrypted data. It will not return data spanning several
SSL frames in a single call.

Also, calls to sysread might fail, because it must first finish an SSL
handshake.

To understand these behaviors is essential, if you write applications which use
event loops and/or non-blocking sockets. Please read the specific sections in
this documentation.

=item B<syswrite(BUF, [LEN, [OFFSET]])>

This functions behaves from the outside the same as B<syswrite> in other
L<IO::Socket>
objects, e.g. it will write at most LEN bytes to the socket, but
there is no guarantee, that all LEN bytes are written. It will return the number
of bytes written.
Because it basically just calls SSL_write from OpenSSL syswrite will write at
most a single SSL frame. This means, that no more than 16.384 bytes, which is
the maximum size of an SSL frame, will be written at once.

For non-blocking sockets SSL specific behavior applies.
Pease read the specific section in this documentation.

=item B<peek(BUF, LEN, [OFFSET])>

This function has exactly the same syntax as B<sysread>, and performs nearly the
same task but will not advance the read position so that successive calls to
peek() with the same arguments will return the same results. This function
requires OpenSSL 0.9.6a or later to work.

=item B<pending()>

This function gives you the number of bytes available without reading from the

underlying socket object. This function is essential if you work with event loops, please
see the section about polling SSL sockets.

=item B<get_fingerprint([algo,certificate,pubkey])>

This methods returns the fingerprint of the given certificate in the form C<algo$digest_hex>, where C<algo> is the used algorithm, default 'sha256'.
If no certificate is given the peer certificate of the connection is used.
If C<pubkey> is true it will not return the fingerprint of the certificate but instead the fingerprint of the pubkey inside the certificate as C<algopubdigest_hex>.

=item B<get_fingerprint_bin([algo,certificate,pubkey])>

This methods returns the binary fingerprint of the given certificate by using the algorithm C<algo>, default 'sha256'.
If no certificate is given the peer certificate of the connection is used.
If C<pubkey> is true it will not return the fingerprint of the certificate but instead the fingerprint of the pubkey inside the certificate.

=item B<get_cipher()>

Returns the string form of the cipher that the IO::Socket::SSL object is using.

=item B<get_sslversion()>

Returns
the string representation of the SSL version of an established connection.

=item B<get_sslversion_int()>

Returns the integer representation of the SSL version of an established connection.

=item B<get_session_reused()>

This returns true if the session got reused and false otherwise. Note that with a reused session no certificates are send within the handshake and no ciphers are offered and thus functions which rely on this might not work.

=item B<dump_peer_certificate()>

Returns a parsable string with select fields from the peer SSL certificate.
This method directly returns the result of the dump_peer_certificate() method of Net::SSLeay.

=item B<peer_certificate($field;[$refresh])>

If a peer certificate exists, this function can retrieve values from it.
If no field is given the internal representation of certificate from Net::SSLeay
is returned.
If refresh is true it will not used a cached version, but check again in case
the certificate of the connection
has changed due to renegotiation.

The following fields can be queried:

=over 8

=item authority (alias issuer)

The certificate authority which signed the certificate.

=item owner (alias subject)

The owner of the certificate.

=item commonName (alias cn) - only for Net::SSLeay version >=1.30

The common name, usually the server name for SSL certificates.

=item subjectAltNames - only for Net::SSLeay version >=1.33

Alternative names for the subject, usually different names for the same
server, like example.org, example.com, *.example.com.

It returns a list of (typ,value) with typ GEN_DNS, GEN_IPADD etc (these
constants are exported from IO::Socket::SSL).
See Net::SSLeay::X509_get_subjectAltNames.

=back

=item B<sock_certificate($field)>

This is similar to C<peer_certificate> but will return the sites own
certificate. The same arguments for B<$field> can be used.
If no B<$field> is given the certificate handle from the underlying OpenSSL will
be returned. This handle will only be
valid as long as the SSL connection exists
and if used afterwards it might result in strange crashes of the application.

=item B<peer_certificates>

This returns all the certificates send by the peer, e.g. first the peers own

certificate and then the rest of the chain. You might use B<CERT_asHash> from L<IO::Socket::SSL::Utils> to inspect each of the certificates.

This function depends on a version of Net::SSLeay >= 1.58 .

=item B<get_servername>

This gives the name requested by the client if Server Name Indication (SNI) was used.

=item B<verify_hostname($hostname,$scheme,$publicsuffix)>

This verifies the given hostname against the peer certificate using the given scheme. Hostname is usually what you specify within the PeerAddr. See the C<SSL_verifycn_publicsuffix> parameter for an explanation of suffix checking and for the possible values.

Verification of hostname against a certificate is different between various applications and RFCs. Some scheme allow wildcards for hostnames, some only in subjectAltNames, and even their different wildcard schemes are possible. RFC 6125 provides a good overview.

To ease the verification the following schemes are predefined (both protocol name and rfcXXXX name can be used):

=over 8

=item rfc2818, xmpp (rfc3920), ftp (rfc4217)

Extended wildcards in subjectAltNames and common name are possible, e.g. *.example.org or even www*.example.org. The common name will be only checked if no DNS names are given in subjectAltNames.

=item http (alias www)

While name checking is defined in rfc2818 the current browsers usually accept also an IP address (w/o wildcards) within the common name as long as no subjectAltNames are defined. Thus this is rfc2818 extended with this feature.

=item smtp (rfc2595), imap, pop3, acap (rfc4642), netconf (rfc5538), syslog (rfc5425), snmp (rfc5953)

Simple wildcards in subjectAltNames are possible, e.g. *.example.org matches www.example.org but not lala.www.example.org. If nothing from subjectAltNames match it checks against the common name, where wildcards are also allowed to match the full leftmost label.

=item ldap (rfc4513)

Simple wildcards are allowed in subjectAltNames, but not in common name.
Common name will be checked even if subjectAltNames exist.

=item sip (rfc5922)

No wildcards are allowed and common name is checked even if subjectAltNames
exist.

=item gist (rfc5971)

Simple wildcards are allowed in subjectAltNames and common name, but common name
will only be checked if their are no DNS names in subjectAltNames.

=item default

This is a superset of all the rules and is automatically used if no scheme is
given but a hostname (instead of IP) is known.
Extended wildcards are allowed in subjectAltNames and common name and common
name is checked always.

=item none

No verification will be done.
Actually is does not make any sense to call verify_hostname in this case.

=back

The scheme can be given either by specifying the name for one of the above
predefined schemes,
 or by using a hash which can have the following keys and
values:

=over 8

=item check_cn: 0|'always'|'when_only'

Determines if the common name gets checked. If 'always' it will always be
checked (like in ldap), if 'when_only' it will only be checked if no names are
given in subjectAltNames (like in http), for any other values the common name
will not be checked.

=item wildcards_in_alt: 0|'full_label'|'anywhere'

Determines if and where wildcards in subjectAltNames are possible. If
'full_label' only cases like *.example.org will be possible (like in ldap), for
'anywhere' www*.example.org is possible too (like http), dangerous things like

but www.*.org or even '*' will not be allowed.
For compatibility with older versions 'leftmost' can be given instead of
'full_label'.

=item wildcards_in_cn: 0|'full_label'|'anywhere'

Similar to wildcards_in_alt, but checks the common name. There is no predefined
scheme which allows wildcards in common names.

=item ip_in_cn: 0|1|4|6

Determines
 if an IP address is allowed in the common name (no wildcards are
allowed). If set to 4 or 6 it only allows IPv4 or IPv6 addresses, any other
true value allows both.

=item callback: \&coderef

If you give a subroutine for verification it will be called with the arguments
($hostname,$commonName,@subjectAltNames), where hostname is the name given for
verification, commonName is the result from peer_certificate('cn') and
subjectAltNames is the result from peer_certificate('subjectAltNames').

All other arguments for the verification scheme will be ignored in this case.

=back

=item B<next_proto_negotiated()>

This method returns the name of negotiated protocol - e.g. 'http/1.1'. It works
for both client and server side of SSL connection.

NPN support is available with Net::SSLeay 1.46+ and openssl-1.0.1+.
To check support you might call C<< IO::Socket::SSL->can_npn() >>.

=item B<alpn_selected()>

Returns the protocol negotiated via ALPN as a string, e.g. 'http/1.1',
'http/2.0' or 'spdy/3.1'.

ALPN
 support is available with Net::SSLeay 1.56+ and openssl-1.0.2+.
To check support, use C<< IO::Socket::SSL->can_alpn() >>.

=item B<errstr()>

Returns the last error (in string form) that occurred. If you do not have a
real object to perform this method on, call IO::Socket::SSL::errstr() instead.

For read and write errors on non-blocking sockets, this method may include the string C<SSL wants a read first!> or C<SSL wants a write first!> meaning that the other side is expecting to read from or write to the socket and wants to be satisfied before you get to do anything. But with version 0.98 you are better comparing the global exported variable $SSL_ERROR against the exported symbols SSL_WANT_READ and SSL_WANT_WRITE.

=item B<opened()>

This returns false if the socket could not be opened, 1 if the socket could be opened and the SSL handshake was successful done and -1 if the underlying IO::Handle is open, but the SSL handshake failed.

=item B<< IO::Socket::SSL->start_SSL($socket,
...) >>

This will convert a glob reference or a socket that you provide to an IO::Socket::SSL object. You may also pass parameters to specify context or connection options as with a call to new(). If you are using this function on an accept()ed socket, you must set the parameter "SSL_server" to 1, i.e. IO::Socket::SSL->start_SSL($socket, SSL_server => 1). If you have a class that inherits from IO::Socket::SSL and you want the $socket to be blessed into your own class instead, use MyClass->start_SSL($socket) to achieve the desired effect.

Note that if start_SSL() fails in SSL negotiation, $socket will remain blessed in its original class. For non-blocking sockets you better just upgrade the socket to IO::Socket::SSL and call accept_SSL or connect_SSL and the upgraded object. To just upgrade the socket set B<SSL_startHandshake> explicitly to 0. If you call start_SSL w/o this parameter it will revert to blocking behavior for accept_SSL and connect_SSL.

If given the parameter
"Timeout" it will stop if after the timeout no SSL
connection was established. This parameter is only used for blocking sockets, if it is not given the default Timeout from the underlying IO::Socket will be used.

=item B<stop_SSL(...)>

This is the opposite of start_SSL(), connect_SSL() and accept_SSL(), e.g. it will shutdown the SSL connection and return to the class before start_SSL(). It gets the same arguments as close(), in fact close() calls stop_SSL() (but without downgrading the class).

Will return true if it succeeded and undef if failed. This might be the case for non-blocking sockets. In this case $! is set to EWOULDBLOCK and the ssl error to

SSL_WANT_READ or SSL_WANT_WRITE. In this case the call should be retried again with the same arguments once the socket is ready.

For calling from C<stop_SSL> C<SSL_fast_shutdown> default to false, e.g. it waits for the close_notify of the peer. This is necessary in case you want to downgrade the socket and continue to use it as a
plain socket.

After stop_SSL the socket can again be used to exchange plain data.

=item B<connect_SSL>, B<accept_SSL>

These functions should be used to do the relevant handshake, if the socket got created with C<new> or upgraded with C<start_SSL> and C<SSL_startHandshake> was set to false.
They will return undef until the handshake succeeded or an error got thrown.
As long as the function returns undef and $! is set to EWOULDBLOCK one could retry the call after the socket got readable (SSL_WANT_READ) or writeable (SSL_WANT_WRITE).

=item B<ocsp_resolver>

This will create an OCSP resolver object, which can be used to create OCSP requests for the certificates of the SSL connection. Which certificates are verified depends on the setting of C<SSL_ocsp_mode>: by default only the leaf certificate will be checked, but with SSL_OCSP_FULL_CHAIN all chain certificates will be checked.

Because to create an OCSP request the certificate and its issuer certificate need to be known it is not possible
to check certificates when the trust chain
is incomplete or if the certificate is self-signed.

The OCSP resolver gets created by calling C<< $ssl->ocsp_resolver >> and provides the following methods:

=over 8

=item hard_error

This returns the hard error when checking the OCSP response.
Hard errors are certificate revocations. With the C<SSL_ocsp_mode> of SSL_OCSP_FAIL_HARD any soft error (e.g. failures to get signed information about the certificates) will be considered a hard error too.

The OCSP resolving will stop on the first hard error.

The method will return undef as long as no hard errors occurred and still

requests to be resolved. If all requests got resolved and no hard errors
occurred the method will return C<''>.

=item soft_error

This returns the soft error(s) which occurred when asking the OCSP responders.

=item requests

This will return a hash consisting of C<(url,request)>-tuples, e.g. which
contain the OCSP request string and the URL where it should be sent
 too. The
usual way to send such a request is as HTTP POST request with a content-type
of C<application/ocsp-request> or as a GET request with the base64 and
url-encoded request is added to the path of the URL.

After you've handled all these requests and added the response with
C<add_response> you should better call this method again to make sure, that no
more requests are outstanding. IO::Socket::SSL will combine multiple OCSP
requests for the same server inside a single request, but some server don't
give a response to all these requests, so that one has to ask again with the
remaining requests.

=item add_response($uri,$response)

This method takes the HTTP body of the response which got received when sending
the OCSP request to C<$uri>. If no response was received or an error occurred
one should either retry or consider C<$response> as empty which will trigger a
soft error.

The method returns the current value of C<hard_error>, e.g. a defined value
when no more requests need to
 be done.

=item resolve_blocking(%args)

This combines C<requests> and C<add_response> which L<HTTP::Tiny> to do all
necessary requests in a blocking way. C<%args> will be given to L<HTTP::Tiny>
so that you can put proxy settings etc here. L<HTTP::Tiny> will be called with
C<verify_SSL> of false, because the OCSP responses have their own signatures so
no extra SSL verification is needed.

If you don't want to use blocking requests you need to roll your own user agent
with C<requests> and C<add_response>.

=back

=item B<< IO::Socket::SSL->new_from_fd($fd, [mode], %sslargs) >>

This will convert a socket identified via a file descriptor into an SSL socket.
Note that the argument list does not include a "MODE" argument; if you supply
one, it will be thoughtfully ignored (for compatibility with IO::Socket::INET).
Instead, a mode of '+<' is assumed, and the file descriptor passed must be able
to handle such I/O because the initial SSL handshake requires bidirectional
communication.

Internally
 the given $fd will be upgraded to a socket object using the
C<new_from_fd> method of the super class (L<IO::Socket::INET> or similar) and
then C<start_SSL> will be called using the given C<%sslargs>.
If C<$fd> is already an IO::Socket object you should better call C<start_SSL>
directly.

=item B<IO::Socket::SSL::default_ca([path|dir| SSL_ca_file => ..., SSL_ca_path => ...])>

Determines or sets the default CA path.
If existing path or dir or a hash is given it will set the default CA path to
this value and never try to detect it automatically.
If C<undef> is given it will forget any stored defaults and continue with
detection of system defaults.
If no arguments are given it will start detection of system defaults, unless it
has already stored user-set or previously detected values.

The detection of system defaults works similar to OpenSSL, e.g. it will check
the directory specified in environment variable SSL_CERT_DIR or the path
OPENSSLDIR/certs (SSLCERTS: on VMS) and the file
 specified in environment
variable SSL_CERT_FILE or the path OPENSSLDIR/cert.pem (SSLCERTS:cert.pem on
VMS). Contrary to OpenSSL it will check if the SSL_ca_path contains PEM files
with the hash as file name and if the SSL_ca_file looks like PEM.
If no usable system default can be found it will try to load and use
L<Mozilla::CA> and if not available give up detection.
The result of the detection will be saved to speed up future calls.

The function returns the saved default CA as hash with SSL_ca_file and
SSL_ca_path.

=item B<IO::Socket::SSL::set_default_context(...)>

You may use this to make IO::Socket::SSL automatically re-use a given context
(unless specifically overridden in a call to new()).
It accepts one argument, which should be either an IO::Socket::SSL object or an
IO::Socket::SSL::SSL_Context object.
See the SSL_reuse_ctx option of new() for more details.
Note that this sets the default context globally, so use with caution (esp. in
mod_perl scripts).

=item B<IO::Socket::SSL::set_default_session_cache(...)>

You
 may use this to make IO::Socket::SSL automatically re-use a given session
cache (unless specifically overridden in a call to new()).
It accepts one argument, which should be an IO::Socket::SSL::Session_Cache
object or similar (e.g. something which implements get_session, add_session and
del_session like IO::Socket::SSL::Session_Cache does).
See the SSL_session_cache option of new() for more details.
Note that this sets the default cache globally, so use with caution.

=item B<IO::Socket::SSL::set_defaults(%args)>

With this function one can set defaults for all SSL_* parameter used for
creation of the context, like the SSL_verify* parameter. Any SSL_* parameter can
be given or the following short versions:

=over 8

=item mode - SSL_verify_mode

=item callback - SSL_verify_callback

=item scheme - SSL_verifycn_scheme

=item name - SSL_verifycn_name

=back

=item B<IO::Socket::SSL::set_client_defaults(%args)>

Similar to C<set_defaults>, but only
 sets the defaults for client mode.

=item B<IO::Socket::SSL::set_server_defaults(%args)>

Similar to C<set_defaults>, but only sets the defaults for server mode.

=item B<IO::Socket::SSL::set_args_filter_hack(\&code|'use_defaults')>

Sometimes one has to use code which uses unwanted or invalid arguments for SSL,
typically disabling SSL verification or setting wrong ciphers or SSL versions.
With this hack it is possible to override these settings and restore sanity.
Example:

```
  IO::Socket::SSL::set_args_filter_hack( sub {
 my ($is_server,$args) = @_;
```

```
 if ( ! $is_server ) {
    # client settings - enable verification with default CA
    # and fallback hostname verification etc
    delete @{$args}{qw(
  SSL_verify_mode
  SSL_ca_file
  SSL_ca_path
  SSL_verifycn_scheme
  SSL_version
    )};
    # and add some fingerprints for known certs which are signed by
    # unknown CAs or are self-signed
    $args->{SSL_fingerprint} = ...
 }
  });
```

With the short setting C<set_args_filter_hack('use_defaults')>
it will prefer
the default settings in all cases. These default settings can be modified with
C<set_defaults>, C<set_client_defaults> and C<set_server_defaults>.

=back

The following methods are unsupported (not to mention futile!) and
IO::Socket::SSL will emit a large CROAK() if you are silly enough to use them:

=over 4

=item truncate

=item stat

=item ungetc

=item setbuf

=item setvbuf

=item fdopen

=item send/recv

Note that send() and recv() cannot be reliably trapped by a tied filehandle
(such as that used by IO::Socket::SSL) and so may send unencrypted data over the
socket. Object-oriented calls to these functions will fail, telling you to use
the print/printf/syswrite and read/sysread families instead.

=back

=head1 DEPRECATIONS

The following functions are deprecated and are only retained for compatibility:

=over 2

=item context_init()

use the SSL_reuse_ctx option if you want to re-use a context

=item socketToSSL() and socket_to_SSL()

use IO::Socket::SSL->start_SSL()
instead

=item kill_socket()

use close() instead

=item get_peer_certificate()

use the peer_certificate() function instead.
Used to return X509_Certificate with methods subject_name and issuer_name.
Now simply returns $self which has these methods (although deprecated).

=item issuer_name()

use peer_certificate('issuer') instead

=item subject_name()

use peer_certificate('subject') instead

=back

=head1 EXAMPLES

See the 'example' directory, the tests in 't' and also the tools in 'util'.

=head1 BUGS

If you use IO::Socket::SSL together with threads you should load it (e.g. use or
require) inside the main thread before creating any other threads which use it.
This way it is much faster because it will be initialized only once. Also there
are reports that it might crash the other way.

Creating an IO::Socket::SSL object in one thread and closing it in another thread will not work.

IO::Socket::SSL does not work together with Storable::fd_retrieve/fd_store. See
BUGS file for more information and how to work around the problem.

Non-blocking and timeouts (which are based on non-blocking) are not supported on Win32, because the underlying IO::Socket::INET does not support non-blocking on this platform.

If you have a server and it looks like you have a memory leak you might check the size of your session cache. Default for Net::SSLeay seems to be 20480, see the example for SSL_create_ctx_callback for how to limit it.

TLS 1.3 support regarding session reuse is incomplete.

=head1 SEE ALSO

IO::Socket::INET, IO::Socket::INET6, IO::Socket::IP, Net::SSLeay.

=head1 THANKS

Many thanks to all who added patches or reported bugs or helped IO::Socket::SSL another way. Please keep reporting bugs and help with patches, even if they just fix the documentation.

Special thanks to the team of Net::SSLeay for the good cooperation.

=head1 AUTHORS

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Patches incorporated from various people, see file Changes.

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1.415 libnet-ssleay-perl 1.88-2ubuntu1

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1.416 libwww-perl 6.43-1

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```
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```

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```
Yoyodyne, Inc., hereby disclaims all
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program `Gnomovision' (a program to direct compilers to make passes
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.418 lzo 2.08-1.2

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1.419 pynacl 1.3.0

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1.421 ubuntu-keyring 2020.02.11.4

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1.422 tablewriter 0.0.5

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1.423 python-requests-unixsocket 0.2.0-2

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1.424 pymacaroons 0.13.0

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1.425 urwid 2.1.2

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1.428 libxml-parser-perl 2.46-1

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```
# LWPExternEnt.pl
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package XML::Parser;

use URI;
use URI::file;
use LWP::UserAgent;

##
## Note that this external entity handler reads the entire entity into
## memory, so it will choke on huge ones. It would be really nice if
## LWP::UserAgent optionally returned us an IO::Handle.
##

sub lwp_ext_ent_handler {
 my ($xp, $base, $sys) = @_;  # We don't use public id
```

```
my $uri;

if (defined $base) {
  # Base may have been set by parsefile, which is agnostic about
  # whether its a file or URI.
  my $base_uri = new URI($base);
  unless (defined $base_uri->scheme) {
    $base_uri = URI->new_abs($base_uri, URI::file->cwd);
  }

  $uri = URI->new_abs($sys, $base_uri);
}
else {
  $uri = new URI($sys);
  unless (defined $uri->scheme)
{
    $uri = URI->new_abs($uri, URI::file->cwd);
  }
}

my $ua = $xp->{_lwpagent};
unless (defined $ua) {
  $ua = $xp->{_lwpagent} = new LWP::UserAgent();
  $ua->env_proxy();
}

my $req = new HTTP::Request('GET', $uri);

my $res = $ua->request($req);
if ($res->is_error) {
  $xp->{ErrorMessage} .= "\n" . $res->status_line . " $uri";
  return undef;
}

$xp->{_BaseStack} ||= [];
push(@{$xp->{_BaseStack}}, $base);

$xp->base($uri);

return $res->content;
}  # End lwp_ext_ent_handler

sub lwp_ext_ent_cleanup {
my ($xp) = @_;

$xp->base(pop(@{$xp->{_BaseStack}}));
}  # End lwp_ext_ent_cleanup
```

1;

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---
abstract: 'A perl module for parsing XML documents'
author:
 - 'Clark Cooper (coopercc@netheaven.com)'
build_requires:
 ExtUtils::MakeMaker: '0'
 Test::More: '0'
 warnings: '0'
configure_requires:
 ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.34, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: XML-Parser
no_index:
 directory:
   - t
   - inc
requires:
 LWP::UserAgent: '0'
 perl: '5.00405'
resources:
 bugtracker: https://github.com/toddr/XML-Parser/issues
 repository: http://github.com/toddr/XML-Parser
version: '2.46'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

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* /libxml-parser-perl-2-46-orig-tar-gz/XML-Parser-2.46/META.yml
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** Expat.xs
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**
*/

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** encoding.h
**
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*/

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1.429 inflection 0.5.1

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1.430 clickclick 20.10.2

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1.431 yaml 2.4.0

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1.432 zope-interface 4.7.1

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1.433 landscape-client 19.12-0ubuntu4.2

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1.435 python 3.8.10

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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.

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.436 urllib3 1.25.8

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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/@WBRSRlBZDhBFXQB6/>
 * 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 <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
 <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 <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.

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

1.437 contextlib2 0.6.0

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==========

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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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2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes

3.2	3.1	2011	PSF	yes
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1.440 pyudev 0.21.0

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1.441 semver 2.13.0

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############
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############

Python SemVer library
######################

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..
  Local variables:
  coding: utf-8
  mode: text
  mode: rst
  End:
  vim: fileencoding=utf-8 filetype=rst :

1.442 pyopenssl 19.0.0

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1.445 pygobject 3.36.0

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1.447 lazr-restfulclient 0.14.2

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1.452 oyaml 1.0

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1.453 cephfs 2.0.0

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1.454 jsonpatch 1.22

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1.455 pyyaml 5.3.1-1ubuntu0.1

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1.456 libx11 1.6.9-2ubuntu1.2

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1.459 glibc 2.23-0ubuntu11.3

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1.463 user-setup 1.63ubuntu6

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1.464 libwebp 0.6.1-2ubuntu0.20.04.1

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1.465 dhcp 4.4.1-2.1ubuntu5.20.04.2

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1.487 click 7.0

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\$ click_
==========

Click is a Python package for creating beautiful command line interfaces
in a composable way with as little code as necessary. It's the "Command
Line Interface Creation Kit". It's highly configurable but comes with
sensible defaults out of the box.

It aims to make the process of writing command line tools quick and fun
while also preventing any frustration caused by the inability to
implement an intended CLI API.

Click in three points:

- Arbitrary nesting of commands
- Automatic help page generation
- Supports lazy loading of subcommands at runtime

Installing

Install and update using `pip`_:

.. code-block:: text

  $ pip install click

Click supports Python 3.4 and newer, Python 2.7, and PyPy.

.. _pip: https://pip.pypa.io/en/stable/quickstart/

A Simple Example

What does it look like? Here is an example of a simple Click program:

.. code-block:: python

   import click

```
  @click.command()
  @click.option("--count", default=1, help="Number of greetings.")
  @click.option("--name", prompt="Your name",
                help="The person to greet.")
  def hello(count, name):
      """Simple program that greets NAME for a total of COUNT times."""
      for _ in range(count):
          click.echo("Hello, %s!" % name)

  if __name__ == '__main__':
      hello()
```

And what it looks like when run:

```
.. code-block:: text

  $ python hello.py --count=3
  Your name: Click
  Hello, Click!
  Hello, Click!
  Hello, Click!
```

Donate

The Pallets organization develops and supports Click and other popular
packages. In order to grow the community of contributors and users, and
allow the maintainers to devote more time to the projects, `please
donate today`_.

```
.. _please donate today: https://palletsprojects.com/donate
```

Links
-----

* Website: https://palletsprojects.com/p/click/
* Documentation: https://click.palletsprojects.com/
* License: `BSD <https://github.com/pallets/click/blob/master/LICENSE.rst>`_
* Releases: https://pypi.org/project/click/
* Code: https://github.com/pallets/click
* Issue tracker: https://github.com/pallets/click/issues
* Test status:

  * Linux, Mac: https://travis-ci.org/pallets/click
  * Windows: https://ci.appveyor.com/project/pallets/click

* Test coverage: https://codecov.io/gh/pallets/click

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Click uses parts of optparse written by Gregory P. Ward and maintained by the Python Software Foundation. This is limited to code in parser.py.

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=======

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* /pallets-click-7-0-0-ga936b99-1-tar-gz/pallets-click-a936b99/click/_termui_impl.py
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Including attribution to #612

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.. _contrib:

=============
click-contrib
=============

As the userbase of Click grows, more and more major feature requests pop up in
Click's bugtracker. As reasonable as it may be for those features to be bundled
with Click instead of being a standalone project, many of those requested
features are either highly experimental or have unproven practical use, while
potentially being a burden to maintain.

This is why click-contrib_ exists. The GitHub organization is a collection of

possibly experimental third-party packages whose featureset does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

Please
 note that the quality and stability of those packages may be different
than what you expect from Click itself. While published under a common
organization, they are still projects separate from Click.

.. _click-contrib: https://github.com/click-contrib/

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* /pallets-click-7-0-0-ga936b99-1-tar-gz/pallets-click-a936b99/docs/contrib.rst
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```
import io
import re
from setuptools import setup

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

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

setup(
  name="Click",
  version=version,
  url="https://palletsprojects.com/p/click/",
  project_urls={
     "Documentation": "https://click.palletsprojects.com/",
     "Code": "https://github.com/pallets/click",
     "Issue tracker": "https://github.com/pallets/click/issues",
  },
  license="BSD",
  author="Armin Ronacher",
  author_email="armin.ronacher@active-4.com",
  maintainer="Pallets Team",
  maintainer_email="contact@palletsprojects.com",
  description="Composable command line interface toolkit",
  long_description=readme,
  packages=["click"],
  include_package_data=True,
  python_requires=">=2.7, !=3.0.*, !=3.1.*,
```

```
 !=3.2.*, !=3.3.*",
  classifiers=[
      "Development Status :: 5 - Production/Stable",
      "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 :: 3.4",
      "Programming Language :: Python :: 3.5",
      "Programming Language :: Python :: 3.6",
      "Programming Language :: Python :: 3.7",
  ],
)
```

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* /pallets-click-7-0-0-ga936b99-1-tar-gz/pallets-click-a936b99/setup.py
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```
# binary only, patch it back to the system, and then use a wrapper
```

Found in path(s):
* /pallets-click-7-0-0-ga936b99-1-tar-gz/pallets-click-a936b99/click/_compat.py

1.488 glib 2.64.6-1~ubuntu20.04.4

1.488.1 Available under license :

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Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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the work with the complete corresponding
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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
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than the cost of performing this distribution.

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which the executable runs, unless that component itself accompanies
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1.489 networkd-dispatcher 2.1-2~ubuntu20.04.1

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1.490 gnutls 3.6.13-2ubuntu1.6

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1.491 libnss-extrausers 0.6-4

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1.492 libtry-tiny-perl 0.30-1

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1.493 policyrcd-script-zg2 0.1-3

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1.494 intltool 0.51.0-5ubuntu1

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more

than the cost of performing this distribution.

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

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

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

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

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

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

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1.497 fwupd 1.5.11-0ubuntu1~20.04.2

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

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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.

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

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

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

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

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

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

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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
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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
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Version 3, 29 June 2007

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Appendix: How to Apply These Terms to Your New Programs

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You should also get your employer (if you work as a programmer) or your
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Ty Coon, President of Vice

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1.504 kerberos 1.17-6ubuntu4.1

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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
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lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c

lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation,
including
the following new or changed files:

include/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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@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>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libhcrypto

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D3DES (V5.09) -

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lib/hcrypto/test_dh.c

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Version 3.1, 31 March 2009

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1.509 automake 1.16.1-4ubuntu6

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If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

<one line to give the program's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
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The hypothetical commands `show w' and `show c' should show the appropriate
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The GNU General Public License does not permit incorporating your program
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the library. If this is what you want to
do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.510 libarchive-zip-perl 1.67-2

1.510.1 Available under license :

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

This is the README file for the 20 April 2009 public release of the
Info-ZIP group's portable UnZip zipfile-extraction program (and related
utilities).

unzip60.zip   portable UnZip, version 6.0, source code distribution
unzip60.tar.Z   same as above, but compress'd tar format
unzip60.tar.gz   same as above, but gzip'd tar format

BEFORE YOU ASK: UnZip, its companion utility Zip, and related utilities
and support files can be found in many places; read the file "WHERE" for
further details. To contact the authors with suggestions, bug reports,
or fixes, continue reading this file (README) and, if this is part of a
source distribution, the file "ZipPorts" in the proginfo directory. Also
in source distributions: read "BUGS" for a list of known bugs, non-bugs
and possible future bugs; INSTALL for instructions on how to build UnZip;
and
 "Contents" for a commented listing of all the distributed files.

GENERAL INFO

UnZip is an extraction utility for archives compressed in .zip format (also
called "zipfiles"). Although highly compatible both with PKWARE's PKZIP
and PKUNZIP utilities for MS-DOS and with Info-ZIP's own Zip program, our
primary objectives have been portability and non-MSDOS functionality.

This version of UnZip has been ported to a stupendous array of hardware--
from micros to supercomputers--and operating systems: Unix (many flavors),
VMS, OS/2 (including DLL version), Windows NT and Windows 95 (including DLL
version), Windows CE (GUI version), Windows 3.x (including DLL version),
MS-DOS, AmigaDOS, Atari TOS, Acorn RISC OS, BeOS, Macintosh (GUI version),
SMS/QDOS, MVS, VM/CMS, FlexOS, Tandem NSK, Human68k (mostly), AOS/VS (partly)
and TOPS-20 (partly). UnZip features not found in PKUNZIP include source
code; default
 extraction of directory trees (with a switch to defeat this,
rather than the reverse); system-specific extended file attributes; and, of
course, the ability to run under most of your favorite operating systems.
Plus, it's free. :-)

For source distributions, see the main Contents file for a list of what's
included, and read INSTALL for instructions on compiling (including OS-
specific comments). The individual operating systems' Contents files (for
example, vms/Contents) may list important compilation info in addition to
explaining what files are what, so be sure to read them. Some of the ports
have their own, special README files, so be sure to look for those, too.

See unzip.1 or unzip.txt for usage (or the corresponding UnZipSFX, ZipInfo,
fUnZip and ZipGrep docs). For VMS, unzip_def.rnh or unzip_cli.help may be
compiled into unzip.hlp and installed as a normal VMS help entry; see
vms/descrip.mms.

CHANGES AND NEW FEATURES

UnZip 6.0 finally supports nowadays

"large" files of sizes > 2 GiB!
This is the first release containing support for the PKWARE Zip64
enhancements.
Major changes are:
- Support PKWARE ZIP64 extensions, allowing Zip archives and Zip archive
  entries larger than 4 GiBytes and more than 65536 entries within a single
  Zip archive. This support is currently only available for Unix,
  OpenVMS and Win32/Win64.
- Support for bzip2 compression method.
- Support for UTF-8 encoded entry names, both through PKWARE's "General
  Purpose Flags Bit 11" indicator and Info-ZIP's new "up" unicode path
  extra field. (Currently, on Windows the UTF-8 handling is limited to
  the character subset contained in the configured non-unicode "system
  code page".)
- Added "wrong implementation used" warning to error messages of the MSDOS
  port when used under Win32, in an attempt to reduce false bug reports.
- Fixed "Time of Creation/Time of Use" vulnerability when setting attributes
  of extracted
files, for Unix and Unix-like ports.
- Fixed memory leak when processing invalid deflated data.
- Fixed long-standing bug in unshrink (partial_clear), added boundary checks
  against invalid compressed data.
- On Unix, keep inherited SGID attribute bit for extracted directories
  unless restoration of owner/group id or SUID/SGID/Tacky attributes was
  requested.
- On Unix, allow extracted filenames to contain embedded control characters
  when explicitly requested by specifying the new command line option "-^".
- On Unix, support restoration of symbolic link attributes.
- On Unix, support restoration of 32-bit UID/GID data using the new "ux"
  IZUNIX3 extra field introduced with Zip 3.0.
- Support for ODS5 extended filename syntax on new OpenVMS systems.
- Support symbolic links zipped up on VMS.
- On VMS (only 8.x or better), support symbolic link creation.
- On VMS, support option to create converted text files in Stream_LF format.
-
New -D option to suppress restoration of timestamps for extracted
  directory entries (on those ports that support setting of directory
  timestamps). By specifying "-DD", this new option also allows to suppress
  timestamp restoration for ALL extracted files on all UnZip ports which
  support restoration of timestamps.
  On VMS, the default behaviour is now to skip restoration of directory
  timestamps; here, "--D" restores ALL timestamps, "-D" restores none.
- On OS/2, Win32, and Unix, the (previously optional) feature UNIXBACKUP
  to allow saving backup copies of overwritten files on extraction is now
  enabled by default.

For the UnZip 6.0 release, we want to give special credit to Myles Bennet,
who started the job of supporting ZIP64 extensions and Large-File (> 2GiB)

and provided a first (alpha-state) port.

The 5.52 maintenance release fixes a few minor problems found in the 5.51
release, closes some more security holes, adds a new AtheOS port, and
contains
a Win32 extra-field code cleanup that was not finished earlier.
The most important changes are:

- (re)enabled unshrinking support by default, the LZW patents have expired
- fixed an extraction size bug for encrypted stored entries (12 excess bytes
  were written with 5.51)
- fixed false "uncompressed size mismatch" messages when extracting
  encrypted archive entries
- do not restore SUID/SGID/Tacky attribute bits on Unix (BeOS, AtheOS)
  unless explicitely requested by new "-K" command line qualifier
- optional support for "-W" qualifier to modify the pattern matching syntax
  (with -W: "*" stops at directory delimiter, "**" matches unlimited)
- prevent buffer overflow caused by bogus extra-long Zipfile specification
- performance enhancements for VMS port
- fixed windll interface handling of its extraction mode qualifiers
  nfflag, ExtractOnlyNewer, noflag, PromptToOverwrite; added detailed
  explanation of their meanings and interactions
to the windll documentation

The 5.51 maintenance release adds a command-line CE port, intended for
batch processing. With the integration of this port, the pUnZip port
has been revised and "revitalized".
The most important changes for the general public are a number of
bug fixes, mostly related to security issues:

- repair a serious bug in the textmode output conversion code for the 16-bit
  ports (16-bit MSDOS, OS/2 1.x, some variants of AMIGA, possibly others)
  which was introduced by the Deflate64 support of release 5.5
- fix a long standing bug in the the inflate decompression method that
  prevented correct extraction in some rare cases
- fixed holes in parent dir traversal security code (e.g.: "./^C." slipped
  through the previous version of the check code)
- fixed security hole: check naming consistency in local and central header
- fixed security hole: prevent extracted symlinks from redirecting file
  extraction paths

The main addition
in the 5.5 release is support for PKWARE's new Deflate64(tm)
algorithm, which appeared first in PKZIP 4.0 (published November 2000).
As usual, some other bugfixes and clean-ups have been integrated:

- support for Deflate64 (Zip compression method #9)
- support for extracting VMS variable length record text files on

any system
- optional "cheap autorun" feature for the SFX stub
- security fixes:
* strip leading slash from stored pathspecs,
* remove "../" parent dir path components from extracted file names
- new option "-:" to allow verbatim extraction of file names containing
"../" parent dir path specs
- fixed file handle leak for the DLL code
- repaired OS2 & WinNT ACL extraction which was broken in 5.42

The 5.42 maintenance release fixes more bugs and cleans up the redistribution conditions:

- removal of unreduce.c and amiga/timelib.c code to get rid of the last
distribution restrictions beyond the BSD-like Info-ZIP LICENSE
- new
generic timelib replacement (currently used by AMIGA port)
- more reasonable mapping rules of UNIX "leading-dot" filenames to the
DOS 8.3 name convention
- repaired screensize detection in MORE paging code
(was broken for DOS/OS2/WIN32 in 5.41)

The 5.41 maintenance release adds another new port and fixes some bugs.

- new BSD-like LICENSE
- new Novell Netware NLM port
- supports extraction of archives with more than 64k entries
- attribute handling of VMS port was broken in UnZip 5.4
- decryption support integrated in the main source distribution

The 5.4 release adds new ports, again. Other important items are changes to the listing format, new supplemental features and several bug fixes (especially concerning time-stamp handling...):

- new IBM OS/390 port, a UNIX derivate (POSIX with EBCDIC charset)
- complete revision of the MacOS port
- changed listing formats to enlarge the file size fields for more digits
- added capability to restore
directory attributes on MSDOS, OS/2, WIN32
- enabled support of symbolic links on BeOS
- Unix: optional Acorn filetype support, useful for volumes exported via NFS
- several changes/additions to the DLL API
- GUI SFX stub for Win16 (Windows 3.1) and Win32 (Windows 9x, Windows NT)
- new free GCC compiler environments supported on WIN32
- many time-zone handling bug fixes for WIN32, AMIGA, ...

The 5.32 release adds two new ports and a fix for at least one relatively serious bug:

- new FlexOS port
- new Tandem NSK port
- new Visual BASIC support (compatibility with the Windows DLLs)
- new -T option (set zipfile timestamp) for virtually all ports
- fix for timestamps beyond 2038 (e.g., 2097; crashed under DOS/Win95/NT)
- fix for undetected "dangling" symbolic links (i.e., no pointee)
- fix for VMS indexed-file extraction problem (stored with Zip 2.0 or 2.1)
- further performance optimizations

The 5.31 release included nothing but small bug-fixes
and typo corrections,
with the exception of some minor performance tweaks.

The 5.3 release added still more ports and more cross-platform portability
features:

- new BeOS port
- new SMS/QDOS port
- new Windows CE graphical port
- VM/CMS port fully updated and tested
- MVS port fully updated and tested
- updated Windows DLL port, with WiZ GUI spun off to a separate package
- full Universal Time (UTC or GMT) support for trans-timezone consistency
- cross-platform support for 8-bit characters (ISO Latin-1, OEM code pages)
- support for NT security descriptors (ACLs)
- support for overwriting OS/2 directory EAs if -o option given
- updated Solaris/SVR4 package facility

What is (still!) not added is multi-part archive support (a.k.a. "diskette
spanning", though we really mean archive splitting and not the old diskette
spanning) and a unified and more powerful DLL interface. These are the two
highest priorities for the 6.x releases. Work on the former
is almost
certain to have commenced by the time you read this. This time we mean it!
You betcha. :-)

Although the DLLs are still basically a mess, the Windows DLLs (16- and 32-
bit) now have some documentation and a small example application. Note that
they should now be compatible with C/C++, Visual BASIC and Delphi. Weirder
languages (FoxBase, etc.) are probably Right Out.

INTERNET RESOURCES

Info-ZIP's web site is at http://www.info-zip.org/pub/infozip/
and contains the most up-to-date information about coming releases,

links to binaries, and common problems.
(See http://www.info-zip.org/pub/infozip/FAQ.html for the latter.)
Files may also be retrieved via ftp://ftp.info-zip.org/pub/infozip/ .
Thanks to LEO (Munich, Germany) for previously hosting our primary site.

DISTRIBUTION

If you have a question regarding redistribution of Info-ZIP software, either as is, as packaging for a commercial product, or as an integral part of a commercial product,
please read the Frequently Asked Questions (FAQ) section
of the included COPYING file. All Info-ZIP releases are now covered by the Info-ZIP license. See the file LICENSE. The most current license should be available at http://www.info-zip.org/license.html and ftp://ftp.info-zip.org/pub/infozip/license.html.

Insofar as C compilers are rare on some platforms and the authors only have direct access to a subset of the supported systems, others may wish to provide ready-to-run executables for new systems. In general there is no problem with this; we require only that such distributions include this README file, the WHERE file, the LICENSE file (contains copyright/redistribution information), and the appropriate documentation files (unzip.txt and/or unzip.1 for UnZip, etc.). If the local system provides a way to make self-extracting archives in which both the executables and text files can be stored together, that's best (in particular, use UnZipSFX if at all possible, even if
it's a few kilobytes bigger than the alternatives); otherwise we
suggest a bare UnZip executable and a separate zipfile containing the remaining text and binary files. If another archiving method is in common use on the target system (for example, Zoo or LHa), that may also be used.

BUGS AND NEW PORTS: CONTACTING INFO-ZIP

All bug reports and patches (context diffs only, please!) should be submitted either through the new Info-ZIP Discussion Forum at http://www.info-zip.org/board/board.pl or through the Info-ZIP SourceForge site at http://sourceforge.net/projects/infozip/. The forum allows file attachments while SourceForge provides a place to post patches. The old Zip-Bugs@lists.wku.edu e-mail address for the Info-ZIP authors was discontinued after heavy continuous spam, as was the QuickTopic discussion forum. The above methods are public, but we also can be reached directly using the web reply page at http://www.info-zip.org/zip-bug.html.
If you
need to send us files privately, contact us first for instructions.

"Dumb questions" that aren't adequately answered in the documentation

should also be directed to Zip-Bugs rather than to a global forum such
as Usenet. (Kindly make certain that your question *isn't* answered by
the documentation, however--a great deal of effort has gone into making
it clear and complete.)

Suggestions for new features can be discussed on the new Discussion Forum.
A new mailing list for Info-ZIP beta testers and interested parties may
be created someday, but for now any issues found in the betas should use
the forum. We make no promises to act on all suggestions or even all
patches, but if it is something that is manifestly useful, sending the
required patches to Zip-Bugs directly (as per the instructions in the
ZipPorts file) is likely to produce a quicker response than asking us to
do it--the authors are always ridiculously short on time. (Please do
NOT send patches or encoded zipfiles
 to the Info-ZIP list. Please DO
read the ZipPorts file before sending any large patch. It would be
difficult to over-emphasize this point...)

If you are considering a port, not only should you read the ZipPorts file,
but also please check in with Zip-Bugs BEFORE getting started, since the
code is constantly being updated behind the scenes. (For example, VxWorks,
VMOS and Netware ports were once claimed to be under construction, although
we have yet to see any up-to-date patches.) We will arrange to send you the
latest sources. The alternative is the possibility that your hard work will
be tucked away in a subdirectory and mostly ignored, or completely ignored
if someone else has already done the port (and you'd be surprised how often
this has happened).

BETA TESTING: JOINING INFO-ZIP

If you'd like to keep up to date with our UnZip (and companion Zip utility)
development, join the ranks of beta testers, add your own thoughts and
contributions,
 or simply lurk, you may join one of our mailing lists.
There is an announcements-only list (Info-ZIP-announce) and a general
discussion/testing list (Info-ZIP). You must be a subscriber to post, and
you can subscribe via the links on our Frequently Asked Questions page:

    http://www.info-zip.org/pub/infozip/FAQ.html#lists

(Please note that as of late May 2004, the lists are unavailable pending
a move to a new site; we hope to have them restored shortly. In the
interim ...) Feel free to use our bug-reporting web page for bug reports
and to ask questions not answered on the FAQ page above:

    http://www.info-zip.org/zip-bug.html

For now the best option is to monitor and contribute to the various threads
on the new discussion forum site at:

    http://www.info-zip.org/board/board.pl

The second best way to contribute is through the various features at
SourceForge, such as the bug posting areas.

There is also a closed mailing list for internal discussions of our core
development
 team. This list is now kept secret to prevent us from being
flooded with spam messages.

-- Greg Roelofs (sometimes known as Cave Newt), principal UnZip developer
  guy, with inspiration from David Kirschbaum, was Author of this text.

-- Christian Spieler (shorthand: SPC), current UnZip maintenance coordinator,
  applied the most recent changes, with Ed Gordon providing a few additions.

Found in path(s):
* /libarchive-zip-perl-1-67-orig-tar-gz/Archive-Zip-1.67/t/data/bzip-zip/README
No license file was found, but licenses were detected in source scan.

=back

=head1 AUTHOR

Sreeji K. Das E<lt>sreeji_k@yahoo.comE<gt>

See L<Archive::Zip> by Ned Konz without which this module does not make
any sense!

Minor mods by Ned Konz.

=head1 COPYRIGHT

Copyright 2002 Sreeji K. Das.

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

=cut

Found in path(s):
* /libarchive-zip-perl-1-67-orig-tar-gz/Archive-Zip-1.67/lib/Archive/Zip/MemberRead.pm
No license file was found, but licenses were detected in source scan.

```
---
abstract: 'Provide an interface to ZIP archive files.'
author:
 - 'Ned Konz <perl@bike-nomad.com>'
build_requires:
 ExtUtils::MakeMaker: '0'
 Test::MockModule: '0'
 Test::More: '0.88'
configure_requires:
 ExtUtils::MakeMaker: '0'
dynamic_config: 0
generated_by: 'ExtUtils::MakeMaker version 6.98, CPAN::Meta::Converter version 2.150005'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: Archive-Zip
no_index:
 directory:
   - t
   - inc
requires:
 Compress::Raw::Zlib: '2.017'
 Encode: '0'
 File::Basename: '0'
 File::Copy: '0'
 File::Find: '0'
 File::Path: '0'
 File::Spec: '0.80'
 File::Temp: '0'
 IO::File: '0'
 IO::Handle: '0'
 IO::Seekable: '0'
 Time::Local: '0'
 perl: '5.006'
resources:
 bugtracker: https://rt.cpan.org/Public/Dist/Display.html?Name=Archive-Zip
 repository: https://github.com/redhotpenguin/perl-Archive-Zip.git
version:
 '1.67'
x_serialization_backend: 'CPAN::Meta::YAML version 0.012'

Found in path(s):
* /libarchive-zip-perl-1-67-orig-tar-gz/Archive-Zip-1.67/META.yml
No license file was found, but licenses were detected in source scan.

# Copyright (c) 1990-2007 Info-ZIP.  All rights reserved.
# not copyrighted and put in the public domain.  If you cannot comply
```

public domain versions.

Found in path(s):
* /libarchive-zip-perl-1-67-orig-tar-gz/Archive-Zip-1.67/lib/Archive/Zip/Member.pm
No license file was found, but licenses were detected in source scan.

Archive-Zip

The Archive::Zip module allows a Perl program to create, manipulate, read,
and write Zip archive files.

See https://metacpan.org/pod/Archive::Zip for more information.

INSTALLATION

To install this module, run the following commands:

```
perl Makefile.PL
make
make test
make install
```

SUPPORT AND DOCUMENTATION

After installing, you can find documentation for this module with the
perldoc command.

```
perldoc Archive::Zip
```

SUPPORT

Bugs should be reported via the CPAN bug tracker

http://rt.cpan.org/NoAuth/ReportBug.html?Queue=Archive-Zip

For other issues contact the maintainer

AUTHOR

Currently maintained by Fred Moyer <fred@redhotpenguin.com>

Previously maintained by Adam Kennedy <adamk@cpan.org>

Previously maintained by Steve Peters <steve@fisharerojo.org>.

File attributes code by Maurice Aubrey <maurice@lovelyfilth.com>.

Originally by Ned Konz <nedkonz@cpan.org>.

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Some
 parts copyright 2006 - 2012 Adam Kennedy.

Some parts copyright 2005 Steve Peters.

Original work copyright 2000 - 2004 Ned Konz.

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

Found in path(s):
* /libarchive-zip-perl-1-67-orig-tar-gz/Archive-Zip-1.67/README.md
No license file was found, but licenses were detected in source scan.

=pod

=encoding utf8

=head1 NAME

Archive::Zip - Provide an interface to ZIP archive files.

=head1 SYNOPSIS

```
 # Create a Zip file
 use Archive::Zip qw( :ERROR_CODES :CONSTANTS );
 my $zip = Archive::Zip->new();

 # Add a directory
 my $dir_member = $zip->addDirectory( 'dirname/' );

 # Add a file from a string with compression
 my $string_member = $zip->addString( 'This is a test', 'stringMember.txt' );
 $string_member->desiredCompressionMethod( COMPRESSION_DEFLATED );

 # Add a file from disk
 my $file_member = $zip->addFile( 'xyz.pl', 'AnotherName.pl' );

 # Save the Zip file
 unless ( $zip->writeToFileNamed('someZip.zip') == AZ_OK ) {
```

```
    die 'write error';
 }

 # Read a Zip file
 my $somezip = Archive::Zip->new();
 unless ( $somezip->read( 'someZip.zip' ) == AZ_OK ) {
    die 'read error';
 }

 # Change the compression type for a file in the Zip
 my $member = $somezip->memberNamed(
'stringMember.txt' );
 $member->desiredCompressionMethod( COMPRESSION_STORED );
 unless ( $zip->writeToFileNamed( 'someOtherZip.zip' ) == AZ_OK ) {
    die 'write error';
 }
```

=head1 DESCRIPTION

The Archive::Zip module allows a Perl program to create, manipulate, read,
and write Zip archive files.

Zip archives can be created, or you can read from existing zip files.

Once created, they can be written to files, streams, or strings. Members
can be added, removed, extracted, replaced, rearranged, and enumerated.
They can also be renamed or have their dates, comments, or other attributes
queried or modified. Their data can be compressed or uncompressed as needed.

Members can be created from members in existing Zip files, or from existing
directories, files, or strings.

This module uses the L<Compress::Raw::Zlib> library to read and write the
compressed streams inside the files.

One can use L<Archive::Zip::MemberRead> to read the zip file archive members
as if they
 were files.

=head2 File Naming

Regardless of what your local file system uses for file naming, names in a
Zip file are in Unix format (I<forward> slashes (/) separating directory
names, etc.).

C<Archive::Zip> tries to be consistent with file naming conventions, and will
translate back and forth between native and Zip file names.

However, it can't guess which format names are in. So two rules control what kind of file name you must pass various routines:

=over 4

=item Names of files are in local format.

C<File::Spec> and C<File::Basename> are used for various file operations. When you're referring to a file on your system, use its file naming conventions.

=item Names of archive members are in Unix format.

This applies to every method that refers to an archive member, or provides a name for new archive members. The C<extract()> methods that can take one or two names will convert from local to zip names if you call them with a single name.

=back

=head2 Archive::Zip Object Model

=head3
Overview

Archive::Zip::Archive objects are what you ordinarily deal with. These maintain the structure of a zip file, without necessarily holding data. When a zip is read from a disk file, the (possibly compressed) data still lives in the file, not in memory. Archive members hold information about the individual members, but not (usually) the actual member data. When the zip is written to a (different) file, the member data is compressed or copied as needed. It is possible to make archive members whose data is held in a string in memory, but this is not done when a zip file is read. Directory members don't have any data.

=head2 Inheritance

Exporter
Archive::Zip Common base class, has defs.
Archive::Zip::Archive A Zip archive.
Archive::Zip::Member Abstract superclass for all members.
Archive::Zip::StringMember Member made from a string
Archive::Zip::FileMember Member
made from an external file
Archive::Zip::ZipFileMember Member that lives in a zip file
Archive::Zip::NewFileMember Member whose data is in a file
Archive::Zip::DirectoryMember Member that is a directory

=head1 EXPORTS

=over 4

=item :CONSTANTS

Exports the following constants:

FA_MSDOS FA_UNIX GPBF_ENCRYPTED_MASK
GPBF_DEFLATING_COMPRESSION_MASK GPBF_HAS_DATA_DESCRIPTOR_MASK
COMPRESSION_STORED COMPRESSION_DEFLATED IFA_TEXT_FILE_MASK
IFA_TEXT_FILE IFA_BINARY_FILE COMPRESSION_LEVEL_NONE
COMPRESSION_LEVEL_DEFAULT COMPRESSION_LEVEL_FASTEST
COMPRESSION_LEVEL_BEST_COMPRESSION
ZIP64_AS_NEEDED ZIP64_EOCD ZIP64_HEADERS

=item :MISC_CONSTANTS

Exports the following constants (only necessary for extending the
module):

FA_AMIGA FA_VAX_VMS FA_VM_CMS FA_ATARI_ST FA_OS2_HPFS
FA_MACINTOSH FA_Z_SYSTEM FA_CPM FA_WINDOWS_NTFS
GPBF_IMPLODING_8K_SLIDING_DICTIONARY_MASK
GPBF_IMPLODING_3_SHANNON_FANO_TREES_MASK
GPBF_IS_COMPRESSED_PATCHED_DATA_MASK COMPRESSION_SHRUNK
DEFLATING_COMPRESSION_NORMAL
DEFLATING_COMPRESSION_MAXIMUM
DEFLATING_COMPRESSION_FAST DEFLATING_COMPRESSION_SUPER_FAST
COMPRESSION_REDUCED_1 COMPRESSION_REDUCED_2 COMPRESSION_REDUCED_3
COMPRESSION_REDUCED_4 COMPRESSION_IMPLODED COMPRESSION_TOKENIZED
COMPRESSION_DEFLATED_ENHANCED
COMPRESSION_PKWARE_DATA_COMPRESSION_LIBRARY_IMPLODED

=item :ERROR_CODES

Explained below. Returned from most methods.

AZ_OK AZ_STREAM_END AZ_ERROR AZ_FORMAT_ERROR AZ_IO_ERROR

=back

=head1 ERROR CODES

Many of the methods in Archive::Zip return error codes. These are implemented
as inline subroutines, using the C<use constant> pragma. They can be imported
into your namespace using the C<:ERROR_CODES> tag:

```
use Archive::Zip qw( :ERROR_CODES );

...

unless ( $zip->read( 'myfile.zip' ) == AZ_OK ) {
    die "whoops!";
}
```

=over 4

=item AZ_OK (0)

Everything is fine.

=item AZ_STREAM_END (1)

The read stream (or central directory) ended normally.

=item AZ_ERROR (2)

There was some generic kind
of error.

=item AZ_FORMAT_ERROR (3)

There is a format error in a ZIP file being read.

=item AZ_IO_ERROR (4)

There was an IO error.

=back

=head2 Compression

Archive::Zip allows each member of a ZIP file to be compressed (using the
Deflate algorithm) or uncompressed.

Other compression algorithms that some versions of ZIP have been able to
produce are not supported. Each member has two compression methods: the
one it's stored as (this is always COMPRESSION_STORED for string and external
file members), and the one you desire for the member in the zip file.

These can be different, of course, so you can make a zip member that is not
compressed out of one that is, and vice versa.

You can inquire about the current compression and set the desired

compression method:

```
 my $member = $zip->memberNamed( 'xyz.txt' );
 $member->compressionMethod();     # return current compression

 # set to read uncompressed
 $member->desiredCompressionMethod( COMPRESSION_STORED );

 # set to read compressed
  $member->desiredCompressionMethod( COMPRESSION_DEFLATED );
```

There are two different compression methods:

=over 4

=item COMPRESSION_STORED

File is stored (no compression)

=item COMPRESSION_DEFLATED

File is Deflated

=back

=head2 Compression Levels

If a member's desiredCompressionMethod is COMPRESSION_DEFLATED, you
can choose different compression levels. This choice may affect the
speed of compression and decompression, as well as the size of the
compressed member data.

```
 $member->desiredCompressionLevel( 9 );
```

The levels given can be:

=over 4

=item * 0 or COMPRESSION_LEVEL_NONE

This is the same as saying

```
 $member->desiredCompressionMethod( COMPRESSION_STORED );
```

=item * 1 .. 9

1 gives the best speed and worst compression, and 9 gives the
best compression and worst speed.

=item * COMPRESSION_LEVEL_FASTEST

This is a synonym for level 1.

=item * COMPRESSION_LEVEL_BEST_COMPRESSION

This is a synonym for level 9.

=item * COMPRESSION_LEVEL_DEFAULT

This gives a good
 compromise between speed and compression,
and is currently equivalent to 6 (this is in the zlib code).
This is the level that will be used if not specified.

=back

=head1 Archive::Zip Methods

The Archive::Zip class (and its invisible subclass Archive::Zip::Archive)
implement generic zip file functionality. Creating a new Archive::Zip object
actually makes an Archive::Zip::Archive object, but you don't have to worry
about this unless you're subclassing.

=head2 Constructor

=over 4

=item new([$fileName])

=item new({ filename => $fileName })

Make a new, empty zip archive.

  my $zip = Archive::Zip->new();

If an additional argument is passed, new() will call read()
to read the contents of an archive:

  my $zip = Archive::Zip->new('xyz.zip');

If a filename argument is passed and the read fails for any
reason, new will return undef. For this reason, it may be
better to call read separately.

=back

=head2 Zip Archive Utility Methods

These Archive::Zip methods may be called
 as functions or as object
methods. Do not call them as class methods:

```
  $zip = Archive::Zip->new();
  $crc = Archive::Zip::computeCRC32( 'ghijkl' );    # OK
  $crc = $zip->computeCRC32( 'ghijkl' );            # also OK
  $crc = Archive::Zip->computeCRC32( 'ghijkl' );    # NOT OK
```

=over 4

=item Archive::Zip::computeCRC32($string [, $crc])

=item Archive::Zip::computeCRC32({ string => $string [, checksum => $crc] })

This is a utility function that uses the Compress::Raw::Zlib CRC
routine to compute a CRC-32. You can get the CRC of a string:

```
  $crc = Archive::Zip::computeCRC32( $string );
```

Or you can compute the running CRC:

```
  $crc = 0;
  $crc = Archive::Zip::computeCRC32( 'abcdef', $crc );
  $crc = Archive::Zip::computeCRC32( 'ghijkl', $crc );
```

=item Archive::Zip::setChunkSize($number)

=item Archive::Zip::setChunkSize({ chunkSize => $number })

Report or change chunk size used for reading and writing.
This can make big differences in dealing with large
 files.
Currently, this defaults to 32K. This also changes the chunk
size used for Compress::Raw::Zlib. You must call setChunkSize()
before reading or writing. This is not exportable, so you
must call it like:

```
  Archive::Zip::setChunkSize( 4096 );
```

or as a method on a zip (though this is a global setting).
Returns old chunk size.

=item Archive::Zip::chunkSize()

Returns the current chunk size:

```
  my $chunkSize = Archive::Zip::chunkSize();

=item Archive::Zip::setErrorHandler( \&subroutine )

=item Archive::Zip::setErrorHandler( { subroutine => \&subroutine } )

Change the subroutine called with error strings. This
defaults to \&Carp::carp, but you may want to change it to
get the error strings. This is not exportable, so you must
call it like:

  Archive::Zip::setErrorHandler( \&myErrorHandler );

If myErrorHandler is undef, resets handler to default.
Returns old error handler. Note that if you call Carp::carp
or a similar routine or if you're chaining to the default
error handler
 from your error handler, you may want to
increment the number of caller levels that are skipped (do
not just set it to a number):

  $Carp::CarpLevel++;

=item Archive::Zip::tempFile( [ $tmpdir ] )

=item Archive::Zip::tempFile( { tempDir => $tmpdir } )

Create a uniquely named temp file. It will be returned open
for read/write. If C<$tmpdir> is given, it is used as the
name of a directory to create the file in. If not given,
creates the file using C<File::Spec::tmpdir()>. Generally, you can
override this choice using the

  $ENV{TMPDIR}

environment variable. But see the L<File::Spec|File::Spec>
documentation for your system. Note that on many systems, if you're
running in taint mode, then you must make sure that C<$ENV{TMPDIR}> is
untainted for it to be used.
Will I<NOT> create C<$tmpdir> if it does not exist (this is a change
from prior versions!). Returns file handle and name:

  my ($fh, $name) = Archive::Zip::tempFile();
  my ($fh, $name) = Archive::Zip::tempFile('myTempDir');
   my $fh = Archive::Zip::tempFile();  # if you don't need the name

=back
```

=head2 Zip Archive Accessors

=over 4

=item members()

Return a copy of the members array

```
  my @members = $zip->members();
```

=item numberOfMembers()

Return the number of members I have

=item memberNames()

Return a list of the (internal) file names of the zip members

=item memberNamed($string)

=item memberNamed({ zipName => $string })

Return ref to member whose filename equals given filename or
undef. C<$string> must be in Zip (Unix) filename format.

=item membersMatching($regex)

=item membersMatching({ regex => $regex })

Return array of members whose filenames match given regular
expression in list context. Returns number of matching
members in scalar context.

```
  my @textFileMembers = $zip->membersMatching( '.*\.txt' );
  # or
  my $numberOfTextFiles = $zip->membersMatching( '.*\.txt' );
```

=item zip64()

Returns whether the previous read or write of the archive has
been done in
 zip64 format.

=item desiredZip64Mode()

Gets or sets which parts of the archive should be written in
zip64 format: All parts as needed (ZIP64_AS_NEEDED), the default,

force writing the zip64 end of central directory record
(ZIP64_EOCD), force writing the zip64 EOCD record and all headers
in zip64 format (ZIP64_HEADERS).

=item versionMadeBy()

=item versionNeededToExtract()

Gets the fields from the zip64 end of central directory
record. These are always 0 if the archive is not in zip64 format.

=item diskNumber()

Return the disk that I start on. Not used for writing zips,
but might be interesting if you read a zip in. This should be
0, as Archive::Zip does not handle multi-volume archives.

=item diskNumberWithStartOfCentralDirectory()

Return the disk number that holds the beginning of the
central directory. Not used for writing zips, but might be
interesting if you read a zip in. This should be 0, as
Archive::Zip does not handle multi-volume archives.

=item numberOfCentralDirectoriesOnThisDisk()

Return
 the number of CD structures in the zipfile last read in.
Not used for writing zips, but might be interesting if you read a zip
in.

=item numberOfCentralDirectories()

Return the number of CD structures in the zipfile last read in.
Not used for writing zips, but might be interesting if you read a zip
in.

=item centralDirectorySize()

Returns central directory size, as read from an external zip
file. Not used for writing zips, but might be interesting if
you read a zip in.

=item centralDirectoryOffsetWRTStartingDiskNumber()

Returns the offset into the zip file where the CD begins. Not
used for writing zips, but might be interesting if you read a
zip in.

=item zipfileComment([$string])

=item zipfileComment([{ comment => $string }])

Get or set the zipfile comment. Returns the old comment.

```
  print $zip->zipfileComment();
  $zip->zipfileComment( 'New Comment' );
```

=item eocdOffset()

Returns the (unexpected) number of bytes between where the
EOCD
 was found and where it expected to be. This is normally
0, but would be positive if something (a virus, perhaps) had
added bytes somewhere before the EOCD. Not used for writing
zips, but might be interesting if you read a zip in. Here is
an example of how you can diagnose this:

```
 my $zip = Archive::Zip->new('somefile.zip');
 if ($zip->eocdOffset())
 {
   warn "A virus has added ", $zip->eocdOffset, " bytes of garbage\n";
 }
```

The C<eocdOffset()> is used to adjust the starting position of member
headers, if necessary.

=item fileName()

Returns the name of the file last read from. If nothing has
been read yet, returns an empty string; if read from a file
handle, returns the handle in string form.

=back

=head2 Zip Archive Member Operations

Various operations on a zip file modify members. When a member is
passed as an argument, you can either use a reference to the member
itself, or the name of a member. Of course, using the name requires
that names be unique within a zip (this is
 not enforced).

=over 4

=item removeMember($memberOrName)

=item removeMember({ memberOrZipName => $memberOrName })

Remove and return the given member, or match its name and
remove it. Returns undef if member or name does not exist in this
Zip. No-op if member does not belong to this zip.

=item replaceMember($memberOrName, $newMember)

=item replaceMember({ memberOrZipName => $memberOrName,
  newMember => $newMember })

Remove and return the given member, or match its name and
remove it. Replace with new member. Returns undef if member or
name does not exist in this Zip, or if C<$newMember> is undefined.

It is an (undiagnosed) error to provide a C<$newMember> that is a
member of the zip being modified.

  my $member1 = $zip->removeMember('xyz');
  my $member2 = $zip->replaceMember('abc', $member1);
  # now, $member2 (named 'abc') is not in $zip,
  # and $member1 (named 'xyz') is, having taken $member2's place.

=item extractMember($memberOrName [, $extractedName
 ])

=item extractMember({ memberOrZipName => $memberOrName
  [, name => $extractedName] })

Extract the given member, or match its name and extract it.
Returns undef if member does not exist in this Zip. If
optional second arg is given, use it as the name of the
extracted member. Otherwise, the internal filename of the
member is used as the name of the extracted file or
directory.
If you pass C<$extractedName>, it should be in the local file
system's format.
If you do not pass C<$extractedName> and the internal filename traverses
a parent directory or a symbolic link, the extraction will be aborted with
C<AC_ERROR> for security reason.
All necessary directories will be created. Returns C<AZ_OK>
on success.

=item extractMemberWithoutPaths($memberOrName [, $extractedName])

=item extractMemberWithoutPaths({ memberOrZipName => $memberOrName
  [, name => $extractedName] })

Extract the given member, or match its name and extract it.
Does not use path information (extracts
 into the current
directory). Returns undef if member does not exist in this
Zip.
If optional second arg is given, use it as the name of the
extracted member (its paths will be deleted too). Otherwise,
the internal filename of the member (minus paths) is used as
the name of the extracted file or directory. Returns C<AZ_OK>
on success.
If you do not pass C<$extractedName> and the internal filename is equalled
to a local symbolic link, the extraction will be aborted with C<AC_ERROR> for
security reason.

=item addMember($member)

=item addMember({ member => $member })

Append a member (possibly from another zip file) to the zip
file. Returns the new member. Generally, you will use
addFile(), addDirectory(), addFileOrDirectory(), addString(),
or read() to add members.

```
  # Move member named 'abc' to end of zip:
  my $member = $zip->removeMember( 'abc' );
  $zip->addMember( $member );
```

=item updateMember($memberOrName, $fileName)

=item updateMember({ memberOrZipName => $memberOrName,
 name => $fileName })

Update a single member from the file or directory named C<$fileName>.
Returns the (possibly added or updated) member, if any; C<undef> on
errors.
The comparison is based on C<lastModTime()> and (in the case of a
non-directory) the size of the file.

=item addFile($fileName [, $newName, $compressionLevel])

=item addFile({ filename => $fileName
  [, zipName => $newName, compressionLevel => $compressionLevel }])

Append a member whose data comes from an external file,
returning the member or undef. The member will have its file
name set to the name of the external file, and its
desiredCompressionMethod set to COMPRESSION_DEFLATED. The

file attributes and last modification time will be set from
the file.
If the name given does not represent a readable plain file or
symbolic link, undef will be returned. C<$fileName> must be
in the format required for the local file system.
The optional C<$newName> argument sets the internal file name
to something
 different than the given $fileName. C<$newName>,
if given, must be in Zip name format (i.e. Unix).
The text mode bit will be set if the contents appears to be
text (as returned by the C<-T> perl operator).

I<NOTE> that you should not (generally) use absolute path names
in zip member names, as this will cause problems with some zip
tools as well as introduce a security hole and make the zip
harder to use.

=item addDirectory($directoryName [, $fileName])

=item addDirectory({ directoryName => $directoryName
  [, zipName => $fileName] })

Append a member created from the given directory name. The
directory name does not have to name an existing directory.
If the named directory exists, the file modification time and
permissions are set from the existing directory, otherwise
they are set to now and permissive default permissions.
C<$directoryName> must be in local file system format.
The optional second argument sets the name of the archive
member (which defaults to C<$directoryName>).
 If given, it
must be in Zip (Unix) format.
Returns the new member.

=item addFileOrDirectory($name [, $newName, $compressionLevel])

=item addFileOrDirectory({ name => $name [, zipName => $newName,
  compressionLevel => $compressionLevel] })

Append a member from the file or directory named $name. If
$newName is given, use it for the name of the new member.
Will add or remove trailing slashes from $newName as needed.
C<$name> must be in local file system format.
The optional second argument sets the name of the archive
member (which defaults to C<$name>). If given, it must be in

Zip (Unix) format.

=item addString($stringOrStringRef, $name, [$compressionLevel])

=item addString({ string => $stringOrStringRef [, zipName => $name,
  compressionLevel => $compressionLevel] })

Append a member created from the given string or string
reference. The name is given by the second argument.
Returns the new member. The last modification time will be
set to now, and the file
 attributes will be set to permissive
defaults.

  my $member = $zip->addString('This is a test', 'test.txt');

=item contents($memberOrMemberName [, $newContents])

=item contents({ memberOrZipName => $memberOrMemberName
  [, contents => $newContents] })

Returns the uncompressed data for a particular member, or
undef.

  print "xyz.txt contains " . $zip->contents('xyz.txt');

Also can change the contents of a member:

  $zip->contents('xyz.txt', 'This is the new contents');

If called expecting an array as the return value, it will include
the status as the second value in the array.

  ($content, $status) = $zip->contents('xyz.txt');

=back

=head2 Zip Archive I/O operations

A Zip archive can be written to a file or file handle, or read from
one.

=over 4

=item writeToFileNamed($fileName)

=item writeToFileNamed({ fileName => $fileName })

Write a zip archive to named file. Returns C<AZ_OK> on
success.

```
  my $status = $zip->writeToFileNamed( 'xx.zip'
);
  die "error somewhere" if $status != AZ_OK;
```

Note that if you use the same name as an existing zip file
that you read in, you will clobber ZipFileMembers. So
instead, write to a different file name, then delete the
original.
If you use the C<overwrite()> or C<overwriteAs()> methods, you can
re-write the original zip in this way.
C<$fileName> should be a valid file name on your system.

=item writeToFileHandle($fileHandle [, $seekable])

Write a zip archive to a file handle. Return AZ_OK on
success. The optional second arg tells whether or not to try
to seek backwards to re-write headers. If not provided, it is
set if the Perl C<-f> test returns true. This could fail on
some operating systems, though.

```
  my $fh = IO::File->new( 'someFile.zip', 'w' );
  unless ( $zip->writeToFileHandle( $fh ) == AZ_OK ) {
     # error handling
  }
```

If you pass a file handle that is not seekable (like if
you're writing to a pipe or a socket), pass a false second
argument:

```
  my $fh =
IO::File->new( '| cat > somefile.zip', 'w' );
  $zip->writeToFileHandle( $fh, 0 );   # fh is not seekable
```

If this method fails during the write of a member, that
member and all following it will return false from
C<wasWritten()>. See writeCentralDirectory() for a way to
deal with this.
If you want, you can write data to the file handle before
passing it to writeToFileHandle(); this could be used (for
instance) for making self-extracting archives. However, this
only works reliably when writing to a real file (as opposed
to STDOUT or some other possible non-file).

See examples/selfex.pl for how to write a self-extracting
archive.

=item writeCentralDirectory($fileHandle [, $offset])

=item writeCentralDirectory({ fileHandle => $fileHandle
  [, offset => $offset] })

Writes the central directory structure to the given file
handle.

Returns AZ_OK on success. If given an $offset, will
seek to that point before writing. This can be used for
recovery in cases where writeToFileHandle
 or writeToFileNamed
returns an IO error because of running out of space on the
destination file.

You can truncate the zip by seeking backwards and then writing the
directory:

```
  my $fh = IO::File->new( 'someFile.zip', 'w' );
     my $retval = $zip->writeToFileHandle( $fh );
  if ( $retval == AZ_IO_ERROR ) {
     my @unwritten = grep { not $_->wasWritten() } $zip->members();
     if (@unwritten) {
        $zip->removeMember( $member ) foreach my $member ( @unwritten );
        $zip->writeCentralDirectory( $fh,
        $unwritten[0]->writeLocalHeaderRelativeOffset());
     }
  }
```

=item overwriteAs($newName)

=item overwriteAs({ filename => $newName })

Write the zip to the specified file, as safely as possible.
This is done by first writing to a temp file, then renaming
the original if it exists, then renaming the temp file, then
deleting the renamed original if it exists. Returns AZ_OK if
successful.

=item overwrite()

Write back to the original zip
 file. See overwriteAs() above.
If the zip was not ever read from a file, this generates an
error.

=item read($fileName)

=item read({ filename => $fileName })

Read zipfile headers from a zip file, appending new members.
Returns C<AZ_OK> or error code.

```
  my $zipFile = Archive::Zip->new();
  my $status = $zipFile->read( '/some/FileName.zip' );
```

=item readFromFileHandle($fileHandle, $filename)

=item readFromFileHandle({ fileHandle => $fileHandle, filename => $filename })

Read zipfile headers from an already-opened file handle,
appending new members. Does not close the file handle.
Returns C<AZ_OK> or error code. Note that this requires a
seekable file handle; reading from a stream is not yet
supported, but using in-memory data is.

```
  my $fh = IO::File->new( '/some/FileName.zip', 'r' );
  my $zip1 = Archive::Zip->new();
  my $status = $zip1->readFromFileHandle( $fh );
  my $zip2 = Archive::Zip->new();
  $status = $zip2->readFromFileHandle( $fh );
```

Read zip using
 in-memory data (recursable):

```
  open my $fh, "<", "archive.zip" or die $!;
  my $zip_data = do { local $.; <$fh> };
  my $zip = Archive::Zip->new;
  open my $dh, "+<", \$zip_data;
  $zip->readFromFileHandle ($dh);
```

=back

=head2 Zip Archive Tree operations

These used to be in Archive::Zip::Tree but got moved into
Archive::Zip. They enable operation on an entire tree of members or
files.
A usage example:

```
 use Archive::Zip;
 my $zip = Archive::Zip->new();
```

```
 # add all readable files and directories below . as xyz/*
 $zip->addTree( '.', 'xyz' );

 # add all readable plain files below /abc as def/*
 $zip->addTree( '/abc', 'def', sub { -f && -r } );

 # add all .c files below /tmp as stuff/*
 $zip->addTreeMatching( '/tmp', 'stuff', '\.c$' );

 # add all .o files below /tmp as stuff/* if they aren't writable
 $zip->addTreeMatching( '/tmp', 'stuff', '\.o$', sub { ! -w } );

 # add all .so files below /tmp that are smaller than 200 bytes as stuff/*
 $zip->addTreeMatching(
 '/tmp', 'stuff', '\.o$', sub { -s < 200 } );

 # and write them into a file
 $zip->writeToFileNamed('xxx.zip');

 # now extract the same files into /tmpx
 $zip->extractTree( 'stuff', '/tmpx' );

=over 4

=item $zip->addTree( $root, $dest [, $pred, $compressionLevel ] ) -- Add tree of files to a zip

=item $zip->addTree( { root => $root, zipName => $dest [, select => $pred,
   compressionLevel => $compressionLevel ] )

C<$root> is the root of the tree of files and directories to be
added. It is a valid directory name on your system. C<$dest> is
the name for the root in the zip file (undef or blank means
to use relative pathnames). It is a valid ZIP directory name
(that is, it uses forward slashes (/) for separating
directory components). C<$pred> is an optional subroutine
reference to select files: it is passed the name of the
prospective file or directory using C<$_>, and if it returns
true, the file or directory will be included. The default is
to add all readable files and directories.
 For instance,
using

 my $pred = sub { /\.txt/ };
 $zip->addTree( '.', '', $pred );

will add all the .txt files in and below the current
directory, using relative names, and making the names
identical in the zipfile:
```

```
 original name          zip member name
 ./xyz                   xyz
 ./a/                   a/
 ./a/b                   a/b
```

To translate absolute to relative pathnames, just pass them
in: $zip->addTree('/c/d', 'a');

```
 original name          zip member name
 /c/d/xyz                a/xyz
 /c/d/a/                a/a/
 /c/d/a/b                a/a/b
```

Returns AZ_OK on success. Note that this will not follow
symbolic links to directories. Note also that this does not
check for the validity of filenames.

Note that you generally I<don't> want to make zip archive member names
absolute.

=item $zip->addTreeMatching($root, $dest, $pattern [, $pred, $compressionLevel])

=item $zip->addTreeMatching({ root => $root, zipName => $dest, pattern =>
  $pattern
 [, select => $pred, compressionLevel => $compressionLevel] })

$root is the root of the tree of files and directories to be
added $dest is the name for the root in the zip file (undef
means to use relative pathnames) $pattern is a (non-anchored)
regular expression for filenames to match $pred is an
optional subroutine reference to select files: it is passed
the name of the prospective file or directory in C<$_>, and
if it returns true, the file or directory will be included.
The default is to add all readable files and directories. To
add all files in and below the current directory whose names
end in C<.pl>, and make them extract into a subdirectory
named C<xyz>, do this:

```
 $zip->addTreeMatching( '.', 'xyz', '\.pl$' )
```

To add all I<writable> files in and below the directory named
C</abc> whose names end in C<.pl>, and make them extract into
a subdirectory named C<xyz>, do this:

```
 $zip->addTreeMatching( '/abc', 'xyz', '\.pl$', sub { -w } )
```

Returns AZ_OK on success. Note that

this will not follow
symbolic links to directories.

=item $zip->updateTree($root [, $dest , $pred , $mirror, $compressionLevel]);

=item $zip->updateTree({ root => $root [, zipName => $dest, select => $pred,
  mirror => $mirror, compressionLevel => $compressionLevel] });

Update a zip file from a directory tree.

C<updateTree()> takes the same arguments as C<addTree()>, but first
checks to see whether the file or directory already exists in the zip
file, and whether it has been changed.

If the fourth argument C<$mirror> is true, then delete all my members
if corresponding files were not found.

Returns an error code or AZ_OK if all is well.

=item $zip->extractTree([$root, $dest, $volume }])

=item $zip->extractTree([{ root => $root, zipName => $dest, volume => $volume }])

If you don't give any arguments at all, will extract all the
files in the zip with their original names.

If you supply one argument for C<$root>, C<extractTree> will extract
all the members whose
names start with C<$root> into the current
directory, stripping off C<$root> first.
C<$root> is in Zip (Unix) format.
For instance,

$zip->extractTree('a');

when applied to a zip containing the files:
a/x a/b/c ax/d/e d/e will extract:

a/x as ./x

a/b/c as ./b/c

If you give two arguments, C<extractTree> extracts all the members
whose names start with C<$root>. It will translate C<$root> into
C<$dest> to construct the destination file name.
C<$root> and C<$dest> are in Zip (Unix) format.
For instance,

```
  $zip->extractTree( 'a', 'd/e' );
```

when applied to a zip containing the files:
a/x a/b/c ax/d/e d/e will extract:

a/x to d/e/x

a/b/c to d/e/b/c and ignore ax/d/e and d/e

If you give three arguments, C<extractTree> extracts all the members whose names start with C<$root>. It will translate C<$root> into C<$dest> to construct the destination file name, and then it will convert to local file system format, using C<$volume> as the name of the destination volume.

C<$root> and C<$dest>
are in Zip (Unix) format.

C<$volume> is in local file system format.

For instance, under Windows,

```
  $zip->extractTree( 'a', 'd/e', 'f:' );
```

when applied to a zip containing the files:
a/x a/b/c ax/d/e d/e will extract:

a/x to f:d/e/x

a/b/c to f:d/e/b/c and ignore ax/d/e and d/e

If you want absolute paths (the prior example used paths relative to the current directory on the destination volume, you can specify these in C<$dest>:

```
  $zip->extractTree( 'a', '/d/e', 'f:' );
```

when applied to a zip containing the files:
a/x a/b/c ax/d/e d/e will extract:

a/x to f:\d\e\x

a/b/c to f:\d\e\b\c and ignore ax/d/e and d/e

If the path to the extracted file traverses a parent directory or a symbolic link, the extraction will be aborted with C<AC_ERROR> for security reason. Returns an error code or AZ_OK if everything worked OK.

=back

=head1 Archive::Zip Global Variables

=over 4

=item $Archive::Zip::UNICODE

This variable governs how Unicode file and directory names are added
to
 or extracted from an archive. If set, file and directory names are considered
to be UTF-8 encoded. This is I<EXPERIMENTAL AND BUGGY (there are some edge cases
on Win32)>. Please report problems.

```
  {
    local $Archive::Zip::UNICODE = 1;
    $zip->addFile('Déjà vu.txt');
  }
```

=back

=head1 MEMBER OPERATIONS

=head2 Member Class Methods

Several constructors allow you to construct members without adding
them to a zip archive. These work the same as the addFile(),
addDirectory(), and addString() zip instance methods described above,
but they don't add the new members to a zip.

=over 4

=item Archive::Zip::Member->newFromString($stringOrStringRef [, $fileName])

=item Archive::Zip::Member->newFromString({ string => $stringOrStringRef
  [, zipName => $fileName])

Construct a new member from the given string. Returns undef
on error.

```
  my $member = Archive::Zip::Member->newFromString( 'This is a test' );
  my $member = Archive::Zip::Member->newFromString( 'This is
a test', 'test.txt' );
  my $member = Archive::Zip::Member->newFromString( { string => 'This is a test', zipName => 'test.txt' } );
```

=item newFromFile($fileName [, $zipName])

=item newFromFile({ filename => $fileName [, zipName => $zipName] })

Construct a new member from the given file. Returns undef on
error.

```
  my $member = Archive::Zip::Member->newFromFile( 'xyz.txt' );
```

=item newDirectoryNamed($directoryName [, $zipname])

=item newDirectoryNamed({ directoryName => $directoryName
  [, zipName => $zipname] })

Construct a new member from the given directory.
C<$directoryName> must be a valid name on your file system; it does not
have to exist.

If given, C<$zipname> will be the name of the zip member; it must be a
valid Zip (Unix) name. If not given, it will be converted from
C<$directoryName>.

Returns undef on error.

```
  my $member = Archive::Zip::Member->newDirectoryNamed( 'CVS/' );
```

=back

=head2 Member Simple Accessors

These methods get (and/or set) member
 attribute values.

The zip64 format requires parts of the member data to be stored
in the so-called extra fields. You cannot get nor set this zip64
data through the extra field accessors described in this section.
In fact, the low-level member methods ensure that the zip64 data
in the extra fields is handled completely transparently and
invisibly to the user when members are read or written.

=over 4

=item zip64()

Returns whether the previous read or write of the member has been
done in zip64 format.

=item desiredZip64Mode()

Gets or sets whether the member's headers should be written in
zip64 format: As needed (ZIP64_AS_NEEDED), the default, or always

(ZIP64_HEADERS).

=item versionMadeBy()

Gets the field from the member header.

=item fileAttributeFormat([$format])

=item fileAttributeFormat([{ format => $format] })

Gets or sets the field from the member header. These are
C<FA_*> values.

=item versionNeededToExtract()

Gets the field from the member header.

=item bitFlag()

Gets
 the general purpose bit field from the member header.
This is where the C<GPBF_*> bits live.

=item compressionMethod()

Returns the member compression method. This is the method
that is currently being used to compress the member data.
This will be COMPRESSION_STORED for added string or file
members, or any of the C<COMPRESSION_*> values for members
from a zip file. However, this module can only handle members
whose data is in COMPRESSION_STORED or COMPRESSION_DEFLATED
format.

=item desiredCompressionMethod([$method])

=item desiredCompressionMethod([{ compressionMethod => $method }])

Get or set the member's C<desiredCompressionMethod>. This is
the compression method that will be used when the member is
written. Returns prior desiredCompressionMethod. Only
COMPRESSION_DEFLATED or COMPRESSION_STORED are valid
arguments. Changing to COMPRESSION_STORED will change the
member desiredCompressionLevel to 0; changing to
COMPRESSION_DEFLATED will change the member
desiredCompressionLevel
 to COMPRESSION_LEVEL_DEFAULT.

=item desiredCompressionLevel([$level])

=item desiredCompressionLevel([{ compressionLevel => $level }])

Get or set the member's desiredCompressionLevel This is the
method that will be used to write. Returns prior
desiredCompressionLevel. Valid arguments are 0 through 9,
COMPRESSION_LEVEL_NONE, COMPRESSION_LEVEL_DEFAULT,
COMPRESSION_LEVEL_BEST_COMPRESSION, and
COMPRESSION_LEVEL_FASTEST. 0 or COMPRESSION_LEVEL_NONE will
change the desiredCompressionMethod to COMPRESSION_STORED.
All other arguments will change the desiredCompressionMethod
to COMPRESSION_DEFLATED.

=item externalFileName()

Return the member's external file name, if any, or undef.

=item fileName()

Get or set the member's internal filename. Returns the
(possibly new) filename. Names will have backslashes
converted to forward slashes, and will have multiple
consecutive slashes converted to single ones.

=item lastModFileDateTime()

Return the member's last modification
 date/time stamp in
MS-DOS format.

=item lastModTime()

Return the member's last modification date/time stamp,
converted to unix localtime format.

  print "Mod Time: " . scalar(localtime($member->lastModTime()));

=item setLastModFileDateTimeFromUnix()

Set the member's lastModFileDateTime from the given unix
time.

  $member->setLastModFileDateTimeFromUnix(time());

=item internalFileAttributes()

Return the internal file attributes field from the zip
header. This is only set for members read from a zip file.

=item externalFileAttributes()

Return member attributes as read from the ZIP file. Note that
these are NOT UNIX!

=item unixFileAttributes([$newAttributes])

=item unixFileAttributes([{ attributes => $newAttributes }])

Get or set the member's file attributes using UNIX file
attributes. Returns old attributes.

```
  my $oldAttribs = $member->unixFileAttributes( 0666 );
```

Note that the return value has more than just the file
permissions, so you will have
 to mask off the lowest bits for
comparisons.

=item localExtraField([$newField])

=item localExtraField([{ field => $newField }])

Gets or sets the extra field that was read from the local
header. The extra field must be in the proper format. If it is
not or if the new field contains data related to the zip64
format, this method does not modify the extra field and returns
AZ_FORMAT_ERROR, otherwise it returns AZ_OK.

=item cdExtraField([$newField])

=item cdExtraField([{ field => $newField }])

Gets or sets the extra field that was read from the central
directory header. The extra field must be in the proper format.
If it is not or if the new field contains data related to the
zip64 format, this method does not modify the extra field and
returns AZ_FORMAT_ERROR, otherwise it returns AZ_OK.

=item extraFields()

Return both local and CD extra fields, concatenated.

=item fileComment([$newComment])

=item fileComment([{ comment => $newComment }])

Get or set the
member's file comment.

=item hasDataDescriptor()

Get or set the data descriptor flag. If this is set, the
local header will not necessarily have the correct data
sizes. Instead, a small structure will be stored at the end
of the member data with these values. This should be
transparent in normal operation.

=item crc32()

Return the CRC-32 value for this member. This will not be set
for members that were constructed from strings or external
files until after the member has been written.

=item crc32String()

Return the CRC-32 value for this member as an 8 character
printable hex string. This will not be set for members that
were constructed from strings or external files until after
the member has been written.

=item compressedSize()

Return the compressed size for this member. This will not be
set for members that were constructed from strings or
external files until after the member has been written.

=item uncompressedSize()

Return the uncompressed size for this member.

=item password(
[$password])

Returns the password for this member to be used on decryption.
If $password is given, it will set the password for the decryption.

=item isEncrypted()

Return true if this member is encrypted. The Archive::Zip
module does not currently support creation of encrypted
members. Decryption works more or less like this:

```
my $zip = Archive::Zip->new;
$zip->read ("encrypted.zip");
```

```
 for my $m (map { $zip->memberNamed ($_) } $zip->memberNames) {
    $m->password ("secret");
    $m->contents;  # is "" when password was wrong
```

That shows that the password has to be set per member, and not per archive. This might change in the future.

=item isTextFile([$flag])

=item isTextFile([{ flag => $flag }])

Returns true if I am a text file. Also can set the status if given an argument (then returns old state). Note that this module does not currently do anything with this flag upon extraction or storage. That is, bytes are stored in native format whether or not
 they came from a text file.

=item isBinaryFile()

Returns true if I am a binary file. Also can set the status if given an argument (then returns old state). Note that this module does not currently do anything with this flag upon extraction or storage. That is, bytes are stored in native format whether or not they came from a text file.

=item extractToFileNamed($fileName)

=item extractToFileNamed({ name => $fileName })

Extract me to a file with the given name. The file will be created with default modes. Directories will be created as needed.
The C<$fileName> argument should be a valid file name on your file system.
Returns AZ_OK on success.

=item isDirectory()

Returns true if I am a directory.

=item writeLocalHeaderRelativeOffset()

Returns the file offset in bytes the last time I was written.

=item wasWritten()

Returns true if I was successfully written. Reset at the

beginning of a write attempt.

=back

=head2 Low-level member data reading

It is possible to use lower-level
 routines to access member data
streams, rather than the extract* methods and contents(). For
instance, here is how to print the uncompressed contents of a member
in chunks using these methods:

```
  my ( $member, $status, $bufferRef );
  $member = $zip->memberNamed( 'xyz.txt' );
  $member->desiredCompressionMethod( COMPRESSION_STORED );
  $status = $member->rewindData();
  die "error $status" unless $status == AZ_OK;
  while ( ! $member->readIsDone() )
  {
  ( $bufferRef, $status ) = $member->readChunk();
  die "error $status"
            if $status != AZ_OK && $status != AZ_STREAM_END;
  # do something with $bufferRef:
  print $$bufferRef;
  }
  $member->endRead();
```

=over 4

=item readChunk([$chunkSize])

=item readChunk([{ chunkSize => $chunkSize }])

This reads the next chunk of given size from the member's
data stream and compresses or uncompresses it as necessary,
returning a reference to the bytes read and a status. If size
argument is not
 given, defaults to global set by
Archive::Zip::setChunkSize. Status is AZ_OK on success until
the last chunk, where it returns AZ_STREAM_END. Returns C<(
\$bytes, $status)>.

```
  my ( $outRef, $status ) = $self->readChunk();
  print $$outRef if $status != AZ_OK && $status != AZ_STREAM_END;
```

=item rewindData()

Rewind data and set up for reading data streams or writing

zip files. Can take options for C<inflateInit()> or
C<deflateInit()>, but this is not likely to be necessary.
Subclass overrides should call this method. Returns C<AZ_OK>
on success.

=item endRead()

Reset the read variables and free the inflater or deflater.
Must be called to close files, etc. Returns AZ_OK on success.

=item readIsDone()

Return true if the read has run out of data or encountered an error.

=item contents()

Return the entire uncompressed member data or undef in scalar
context. When called in array context, returns C<($string,
$status)>; status will be AZ_OK on success:

```
my $string = $member->contents();
 # or
my ( $string, $status ) = $member->contents();
die "error $status" unless $status == AZ_OK;
```

Can also be used to set the contents of a member (this may
change the class of the member):

```
$member->contents( "this is my new contents" );
```

=item extractToFileHandle($fh)

=item extractToFileHandle({ fileHandle => $fh })

Extract (and uncompress, if necessary) the member's contents
to the given file handle. Return AZ_OK on success.

For members representing symbolic links, pass the name of the
symbolic link as file handle. Ensure that all directories in the
path to the symbolic link already exist.

=back

=head1 Archive::Zip::FileMember methods

The Archive::Zip::FileMember class extends Archive::Zip::Member. It is the
base class for both ZipFileMember and NewFileMember classes. This class adds
an C<externalFileName> and an C<fh> member to keep track of the external

file.

=over 4

=item externalFileName()

Return the member's external filename.

=item fh()

Return
the member's read file handle. Automatically opens file if
necessary.

=back

=head1 Archive::Zip::ZipFileMember methods

The Archive::Zip::ZipFileMember class represents members that have been read
from external zip files.

=over 4

=item diskNumberStart()

Returns the disk number that the member's local header resides in.
Should be 0.

=item localHeaderRelativeOffset()

Returns the offset into the zip file where the member's local header
is.

=item dataOffset()

Returns the offset from the beginning of the zip file to the member's
data.

=back

=head1 REQUIRED MODULES

L<Archive::Zip> requires several other modules:

L<Carp>

L<Compress::Raw::Zlib>

L<Cwd>

L<File::Basename>

L<File::Copy>

L<File::Find>

L<File::Path>

L<File::Spec>

L<IO::File>

L<IO::Seekable>

L<Time::Local>

=head1 BUGS AND CAVEATS

=head2 When not to use Archive::Zip

If you are just going to be extracting zips (and/or other archives) you
are recommended to look at using L<Archive::Extract> instead, as
 it is much
easier to use and factors out archive-specific functionality.

=head2 Zip64 Format Support

Since version 1.67 Archive::Zip supports the so-called zip64
format, which overcomes various limitations in the original zip
file format. On some Perl interpreters, however, even version
1.67 and newer of Archive::Zip cannot support the zip64 format.
Among these are all Perl interpreters that lack 64-bit support
and those older than version 5.10.0.

Constant C<ZIP64_SUPPORTED>, exported with tag L<:CONSTANTS>,
equals true if Archive::Zip on the current Perl interpreter
supports the zip64 format. If it does not and you try to read or
write an archive in zip64 format, anyway, Archive::Zip returns an
error C<AZ_ERROR> and reports an error message along the lines of
"zip64 format not supported on this Perl interpreter".

=head2 C<versionMadeBy> and C<versionNeededToExtract>

The zip64 format and the zip file format in general specify what
values to use for the C<versionMadeBy> and
C<versionNeededToExtract>

fields in the local file header,
central directory file header, and zip64 EOCD record. In
practice however, these fields seem to be more or less randomly
used by various archiver implementations.

To achieve a compromise between backward compatibility and
(whatever) standard compliance, Archive::Zip handles them as
follows:

=over 4

=item

For field C<versionMadeBy>, Archive::Zip uses default value 20
(45 for the zip64 EOCD record) or any previously read value. It
never changes that value when writing a header, even if it is
written in zip64 format, or when writing the zip64 EOCD record.

=item

Likewise for field C<versionNeededToExtract>, but here
Archive::Zip forces a minimum value of 45 when writing a header
in zip64 format or the zip64 EOCD record.

=item

Finally, Archive::Zip never depends on the values of these fields
in any way when reading an archive from a file or file handle.

=back

=head2 Try to avoid IO::Scalar

One of the most common ways to use
Archive::Zip is to generate Zip files
in-memory. Most people use L<IO::Scalar> for this purpose.

Unfortunately, as of 1.11 this module no longer works with L<IO::Scalar>
as it incorrectly implements seeking.

Anybody using L<IO::Scalar> should consider porting to L<IO::String>,
which is smaller, lighter, and is implemented to be perfectly compatible
with regular seekable filehandles.

Support for L<IO::Scalar> most likely will B<not> be restored in the
future, as L<IO::Scalar> itself cannot change the way it is implemented
due to back-compatibility issues.

=head2 Wrong password for encrypted members

When an encrypted member is read using the wrong password, you currently
have to re-read the entire archive to try again with the correct password.

=head1 TO DO

* auto-choosing storing vs compression

* extra field hooks (see notes.txt)

* check for duplicates on addition/renaming?

* Text file extraction (line end translation)

* Reading zip files from non-seekable inputs
 (Perhaps by
 proxying through IO::String?)

* separate unused constants into separate module

* cookbook style docs

* Handle tainted paths correctly

* Work on better compatibility with other IO:: modules

* Support encryption

* More user-friendly decryption

=head1 SUPPORT

Bugs should be reported via the CPAN bug tracker

L<http://rt.cpan.org/NoAuth/ReportBug.html?Queue=Archive-Zip>

For other issues contact the maintainer

=head1 AUTHOR

Currently maintained by Fred Moyer <fred@redhotpenguin.com>

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Previously maintained by Steve Peters E<lt>steve@fisharerojo.orgE<gt>.

File attributes code by Maurice Aubrey E<lt>maurice@lovelyfilth.comE<gt>.

Originally by Ned Konz E<lt>nedkonz@cpan.orgE<gt>.

=head1 COPYRIGHT

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 Perl itself.

=head1 SEE ALSO

Look at L<Archive::Zip::MemberRead> which is a wrapper that allows one to
read Zip archive members as if they were files.

L<Compress::Raw::Zlib>, L<Archive::Tar>, L<Archive::Extract>

=cut

Found in path(s):
* /libarchive-zip-perl-1-67-orig-tar-gz/Archive-Zip-1.67/lib/Archive/Zip.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Archive::Zip::Tree - (DEPRECATED) methods for adding/extracting trees using Archive::Zip

=head1 DESCRIPTION

This module is deprecated, because all its methods were moved into the main
Archive::Zip module.

It is included in the distribution merely to avoid breaking old code.

See L<Archive::Zip>.

=head1 AUTHOR

Ned Konz, perl@bike-nomad.com

=head1 COPYRIGHT

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as Perl itself.

=head1 SEE ALSO

L<Archive::Zip>

=cut

Found in path(s):
* /libarchive-zip-perl-1-67-orig-tar-gz/Archive-Zip-1.67/lib/Archive/Zip/Tree.pm

1.511 debhelper 12.10ubuntu1

1.511.1 Available under license :

Some test copyright file
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1.515 swagger-ui-bundle 0.0.9

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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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1.519 libhttp-date-perl 6.05-1

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school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter the names:

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Ty Coon, President of Vice

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* Father Chrysostomos
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1.520 liblwp-mediatypes-perl 6.04-1

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1.521 libhtml-tagset-perl 3.20-4

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README for HTML::Tagset

HTML::Tagset

This module contains data tables useful in dealing with HTML.

It provides no functions or methods.

PREREQUISITES

This suite requires Perl 5.

HTML::Tagset doesn't use any nonstandard modules.

INSTALLATION

You install HTML::Tagset, as you would install any perl module library, by running these commands:

```
perl Makefile.PL
make
make test
make install
```

If you want to install a private copy of HTML::Tagset in your home directory, then you should try to produce the initial Makefile with something like this command:

```
perl Makefile.PL LIB=~/perl
```

DOCUMENTATION

POD-format documentation is included in Tagset.pm. POD is readable with the 'perldoc' utility. See ChangeLog for recent changes.

MACPERL INSTALLATION NOTES

Don't bother with the makefiles. Just make a HTML directory in your MacPerl site_lib or lib directory, and move Tagset.pm into there.

SUPPORT

Questions, bug reports, and suggestions for HTML::Tagset should just be sent to me at sburke@cpan.org

AVAILABILITY

The latest version of HTML::Tagset is available from the Comprehensive Perl Archive Network (CPAN). Visit <http://www.perl.com/CPAN/> to find a CPAN site near you.

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=head1 CAVEATS

You may find it useful to alter the behavior of modules (like
C<HTML::Element> or C<HTML::TreeBuilder>) that use C<HTML::Tagset>'s
data tables by altering the data tables themselves. You are welcome
to try, but be careful; and be aware that different modules may or may
react differently to the data tables being changed.

Note that it may be inappropriate to use these tables for I<producing>
HTML -- for example, C<%isHeadOrBodyElement> lists the tagnames
for all elements that can appear either in the head or in the body,
such as "script". That doesn't mean that I am saying your code that
produces HTML should feel free to put script elements in either place!
If you are producing programs that spit out HTML, you should be
I<intimately> familiar with the DTDs for HTML or XHTML (available at
C<http://www.w3.org/>), and you should slavishly obey them, not
the data tables in this document.

=head1 SEE ALSO

L<HTML::Element>,
 L<HTML::TreeBuilder>, L<HTML::LinkExtor>

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Most of the code/data in this module was adapted from code written
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C<HTML::LinkExtor>. Then it was maintained by Sean M. Burke.

=head1 AUTHOR

Current maintainer: Andy Lester, C<< <andy at petdance.com> >>

=head1 BUGS

Please report any bugs or feature requests to
C<bug-html-tagset at rt.cpan.org>, or through the web interface at
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be notified, and then you'll automatically be notified of progress on
your bug as I make changes.

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1.526 pam 1.3.1-5ubuntu4.3

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1.527 greenlet 1.1.2

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1.528 libtiff 4.1.0

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1.529 udisks 2.8.4-1ubuntu2

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1.530 go-homedir 1.1.0

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1.531 go-difflib 1.0.0

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1.532 x-sys 0.0.0-20210823070655-63515b42dcdf

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1.533 pborman-uuid 1.2.1

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1.534 go-isatty 0.0.13

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1.535 x-sync 0.0.0-20210220032951-036812b2e83c

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1.536 golang-glog 1.0.0

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1.537 python-certifi 2021.10.8

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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:

http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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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@(#) $RCSfile: certdata.txt,v $
$Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.538 x-xerrors 0.0.0-20200804184101-5ec99f83aff1

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1.539 afero 1.0.5

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1.540 blackfriday 2.1.0

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1.541 kballard-go-shellquote 0.0.0-20180428030007-95032a82bc51

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1.542 h2 4.1.0

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1.543 gopkg.in-tomb 2.0.0-20161208151619-d5d1b5820637

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1.544 x-crypto 0.0.0-20210817164053-32db794688a5

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1.546 x-sys 0.0.0-20211004093028-2c5d950f24ef

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1.547 x-crypto 0.0.0-20210921155107-089bfa567519

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1.548 go-isatty 0.0.14

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1.549 go-colorable 0.1.11

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1.554 armon-go-proxyproto 0.0.0-20210323213023-7e956b284f0a

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1.556 miekg-dns 1.1.43

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1.557 gopkg.in-yaml 2.3.0

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1.558 distro-info-data 0.43ubuntu1.9

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1.560 x-term 0.0.0-20210927222741-03fcf44c2211

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1.561 tdb 1.45.5

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1.562 alsa-ucm-conf 1.2.2-1ubuntu0.11

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1.563 lvm2 1.02.167-1ubuntu1

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<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
 xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 xmlns:xi="http://www.w3.org/2001/XInclude"
 xmlns:db="http://docbook.org/ns/docbook">

 <xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">

    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
 </xsl:template>

 <xsl:variable name="isc.copyright.text">
  <xsl:text>
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     License, v. 2.0. If a copy of the MPL was not distributed with this
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  </xsl:text>
 </xsl:variable>

 <xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
```

```
        <xsl:value-of select="$isc.copyright.breakline"/>
   <xsl:text>&#10;</xsl:text>
 </xsl:for-each>
 <xsl:value-of
 select="$isc.copyright.text"/>
     </xsl:with-param>
   </xsl:call-template>
 </xsl:variable>
</xsl:stylesheet>

<!--
 - Local variables:
 - mode: sgml
 - End:
-->
```

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1.571 fvbommel-sortorder 1.0.2

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1.572 libhttp-message-perl 6.22-1

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1.573 libtimedate-perl 2.3200-1

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```
---
abstract: unknown
author:
 - 'Graham Barr <gbarr@pobox.com>'
build_requires:
 ExtUtils::MakeMaker: '0'
configure_requires:
 ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.44, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: TimeDate
no_index:
 directory:
   - t
   - inc
resources:
 bugtracker: https://github.com/atoomic/perl-TimeDate/issues
 repository: https://github.com/atoomic/perl-TimeDate
version: '2.32'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /libtimedate-perl-2-3200-orig-1-tar-gz/TimeDate-2.32/META.yml
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=encoding utf8
```

=head1 NAME

Date::Language::Bulgarian - localization for Date::Format

=head1 DESCRIPTION

This is Bulgarian localization for Date::Format.
It is important to note that this module source code is in utf8.
All strings which it outputs are in utf8, so it is safe to use it
currently only with English. You are left alone to try and convert
the output when using different Date::Language::* in the same application.
This should be addresed in the future.

=head1 SYNOPSIS

```
  use strict;
  use warnings;
  use Date::Language;
  local $\=$/;
  my $template ='%a %b %e %T %Y (%Y-%m-%d %H:%M:%S)';
  my $time=1290883821; #or just use time();
  my @lt = localtime($time);
  my %languages = qw(English GMT German EEST Bulgarian EET);
  binmode(select,':utf8');

  foreach my $l(keys %languages){
     my $lang = Date::Language->new($l);
     my $zone = $languages{$l};
     print $/. "$l
 $zone";
     print $lang->time2str($template, $time);
     print $lang->time2str($template, $time, $zone);

     print $lang->strftime($template, \@lt);
  }
```

=head1 AUTHOR

Krasimir Berov (berov@cpan.org)

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=cut

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=head1 NAME

Date::Language::Hungarian - Magyar format for Date::Format

=head1 SYNOPSIS

```
 my $lang = Date::Language->new('Hungarian');
 print $lang->time2str("%a %b %e %T %Y", time);

 @lt = localtime(time);
 print $lang->time2str($template, time);
 print $lang->strftime($template, @lt);

 print $lang->time2str($template, time, $zone);
 print $lang->strftime($template, @lt, $zone);

 print $lang->ctime(time);
 print $lang->asctime(@lt);

 print $lang->ctime(time, $zone);
 print $lang->asctime(@lt, $zone);
```

See L<Date::Format>.

=head1 AUTHOR

Paula Goddard (paula -at- paulacska -dot- com)

=head1 LICENCE

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* /libtimedate-perl-2-3200-orig-1-tar-gz/TimeDate-2.32/lib/Date/Parse.pm

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This is the perl5 TimeDate distribution. It requires perl version 5.003
or later

This distribution replaces my earlier GetDate distribution, which was
only a date parser. The date parser contained in this distribution is
far superior to the yacc based parser, and a *lot* fatser.

The parser contained here will only parse absolute dates, if you want a
date parser that can parse relative dates then take a look at the Time
modules by David Muir on CPAN.

You install the library by running these commands:

```
perl Makefile.PL
make
make test
make install
```

Please report any bugs/suggestions to <gbarr@pobox.com>

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1.574 nginx 1.18.0

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1.575 apport 2.20.11-0ubuntu27.21

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1.580 libogg 1.3.4-0ubuntu1

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References: <20110813065417.GV2324@audi.shelbyville.oz>
From: Silvia Pfeiffer <silviapfeiffer1@gmail.com>
Date: Sun, 14 Aug 2011 15:47:09 +1000
Message-ID: <CAHp8n2nmGN+G09aA118KN86NeX9yw_VJAQNFZebm74k195zz+Q@mail.gmail.com>
Subject: Re: Distributing the libogg RFCs in the Debian package
To: Ron <ron@debian.org>
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1.581 alsa 1.2.2-2.1ubuntu2.5

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by this License.
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that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.

Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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1.582 tdb 1.4.3-0ubuntu0.20.04.1

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1.583 vim 8.1.2269-1ubuntu5.4

1.584 libisofs 1.5.2-1

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1.594 icu 66.1-2ubuntu2.1

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

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

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

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

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

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

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

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

```
 $(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

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


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

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

## Versioned libraries rules

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

##  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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1.596 libqmi 1.28.6-1~20.04.1

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1.599 six 1.14.0

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1.601 lockfile 0.12.2

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Version 3.0, 18 August 2009

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1.604 six 1.16.0

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1.606 golang 1.16.3

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#     http://code.google.com/legal/individual-cla-v1.0.html
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# Names should be added to this file like so:
#     Individual's name <submission email address>
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  Samba trivial allocation library - new interface

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1.617 go-chi-chi 5.0.7

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline

functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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1.621 gliderlabs-ssh 0.3.3

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1.622 grpclib 0.4.2

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1.623 twinj-uuid 1.0.0

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1.624 pythondialog 3.5.3

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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

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d) If distribution of the work is made by offering access to copy
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For an executable, the required form of the "work that uses the
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Sphinx AUTHORS file
==========

Sphinx is written and maintained by Georg Brandl <georg@python.org>.

Substantial parts of the templates were written by Armin Ronacher
<armin.ronacher@active-4.com>.

Other contributors, listed alphabetically, are:

* Andi Albrecht -- agogo theme
* Henrique Bastos -- SVG support for graphviz extension
* Daniel Bltmann -- todo extension
* Etienne
Desautels -- apidoc module
* Michael Droettboom -- inheritance_diagram extension
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* ukasz Langa -- partial support for autodoc
* Robert Lehmann -- gettext builder (GSOC project)
* Dan MacKinlay -- metadata fixes
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* Will Maier -- directory HTML builder
* Jacob Mason -- websupport library (GSOC project)
* Roland Meister -- epub builder
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* Christopher Perkins -- autosummary integration

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* Barry Warsaw -- setup command improvements
* Sebastian Wiesner -- image handling, distutils support
* Joel Wurtz -- cellspanning support in LaTeX

Many thanks for all contributions!

There are also a few modules or functions incorporated from other
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Local Variables:
coding: utf-8
fill-column: 70
End:

1.625 prance 0.21.8.0

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1.626 spice 0.15.0

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1.627 openapi-schema-validator 0.1.6

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1.628 python-requests 2.27.1

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1.629 dash 0.5.10.2-6

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1.630 pyrsistent 0.18.1

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1.631 command-not-found 20.04.5

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It was downloaded via bzr from
https://code.launchpad.net/~zkrynicki/command-not-found/main

The ubuntu source is at:
https://code.edge.launchpad.net/~ubuntu-core-dev/command-not-found/ubuntu

Upstream Author: Zygmunt Krynicki <zkrynicki@gmail.com>
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1.632 cobra 1.2.1

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'''Class to used to throttle function calls, so that something isn't called too
often

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'''

```
from datetime import datetime, timedelta


class Throttle(object):
  def __init__(self,
               seconds: int = 1,
               minutes: int = 0,
               hours: int = 0) -> None:
      self.throttle_period = timedelta(
          seconds=seconds, minutes=minutes, hours=hours
      )
      self.time_of_last_call = datetime.min

  def exceedRate(self) -> bool:
      now = datetime.now()
      time_since_last_call = now - self.time_of_last_call

      if time_since_last_call > self.throttle_period:
          self.time_of_last_call = now
          return False
      else:
```

```
        return True
```

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```
'''Types used by cobra, used by mypy

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'''

from typing import Any, Dict

JsonDict = Dict[str, Any]
YamlDict = Dict[str, Any]
```

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```
'''Subscribe to a channel

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'''

import asyncio
import json

import click
import uvloop

from cobras.client.client import subscribeClient
from cobras.client.credentials import (createCredentials, getDefaultRoleForApp,
                                       getDefaultSecretForApp)
from cobras.common.apps_config import PUBSUB_APPKEY
from cobras.common.superuser import preventRootUsage
from cobras.common.throttle import Throttle

DEFAULT_URL = f'ws://127.0.0.1:8765/v2?appkey={PUBSUB_APPKEY}'


class MessageHandlerClass:
  def __init__(self, websockets, args):
      self.cnt = 0
      self.cntPerSec = 0
      self.throttle = Throttle(seconds=1)
      self.verbose = args['verbose']
```

```
  async def on_init(self):
      pass

  async def handleMsg(self, msg: str) -> bool:
      self.cnt += 1
      self.cntPerSec += 1

      if self.verbose >=
1:
          data = json.loads(msg)
          body = data['body']
          message = body['messages'][0]
          position = body['position']
          print(f'{message} at position {position}')

      if self.throttle.exceedRate():
          return True

      print(f"#messages {self.cnt} msg/s {self.cntPerSec}")
      self.cntPerSec = 0

      return True


@click.command()
@click.option('--url', default=DEFAULT_URL)
@click.option('--role', default=getDefaultRoleForApp('pubsub'))
@click.option('--secret', default=getDefaultSecretForApp('pubsub'))
@click.option('--channel', default='sms_republished_v1_neo')
@click.option('--position')
@click.option('--verbose', '-v', count=True)
@click.option('--stream_sql')
def subscribe(url, role, secret, channel, position, stream_sql, verbose):
  '''Subscribe to a channel
  '''

  preventRootUsage()
  uvloop.install()

  credentials = createCredentials(role, secret)

  asyncio.get_event_loop().run_until_complete(
          subscribeClient(url, credentials, channel, position,
                          stream_sql, MessageHandlerClass,
                          {'verbose': verbose}))

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* /cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/subscribe.py
```

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```
'''Publish to a channel

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'''

import asyncio
import functools
import json

import click
import uvloop

from cobras.client.client import client
from cobras.client.credentials import (createCredentials, getDefaultRoleForApp,
                                       getDefaultSecretForApp)
from cobras.common.apps_config import ADMIN_APPKEY
from cobras.common.superuser import preventRootUsage

DEFAULT_URL = f'ws://127.0.0.1:8765/v2?appkey={ADMIN_APPKEY}'


async def clientCallback(websocket, **args):
  method = args['method']
  params = args.get('params')
  params = json.loads(params)

  pdu = {
     "action": "rpc/admin",
     "id": 1,
     "body": {
        "method": method,
        "params": params
     }
  }

  await websocket.send(json.dumps(pdu))

  response = await websocket.recv()
  print(response)


async def start(url,
 credentials, verbose, method, params):
  callback = functools.partial(clientCallback,
                               verbose=verbose,
                               method=method,
```

```
                        params=params)

  task = asyncio.create_task(
      client(url, credentials, callback))
  await task


@click.command()
@click.option('--url', default=DEFAULT_URL)
@click.option('--role', default=getDefaultRoleForApp('admin'))
@click.option('--secret', default=getDefaultSecretForApp('admin'))
@click.option('--verbose', is_flag=True)
@click.option('--method', default='close_all')
@click.option('--params', default='{}')
def admin(url, role, secret, verbose, method, params):
  '''Admin

  \b
  cobra admin --method toggle_file_logging --params '{"connection_id": ".."}'
  '''

  preventRootUsage()
  uvloop.install()

  credentials = createCredentials(role, secret)

  asyncio.get_event_loop().run_until_complete(start(url, credentials,

                              verbose, method, params))
```

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```
'''Capture memory usage

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'''

import os

import psutil

from cobras.common.memoize import memoize


@memoize
def getContainerMemoryLimit():
```

```
  '''In bytes'''

  path = '/sys/fs/cgroup/memory/memory.limit_in_bytes'
  if not os.path.exists(path):
     return psutil.virtual_memory().total
  else:
     with open(path) as f:
        mem = f.read()
        return int(mem)


def getProcessUsedMemory():
  p = psutil.Process()
  return p.memory_info().rss
```

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```
'''djb2 hash (unsused)

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'''


def djb2Hash(data):
  '''Return a 32 bits digest'''

  hash = 5381
  for x in data:
     hash = ((hash << 5) + hash) + ord(x)
  return hash & 0xFFFFFFFF
```

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```
'''Setup cobra

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'''
import click

from cobras.common.apps_config import AppsConfig, getDefaultAppsConfigPath
from cobras.common.superuser import preventRootUsage


@click.command()
```

```
def init():
  '''Setup cobra
  '''

  preventRootUsage()

  path = getDefaultAppsConfigPath()
  appsConfig = AppsConfig(path)
  appsConfig.generateDefaultConfig()
```

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```
'''Bot

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'''

import click

from cobras.bavarde.bot.bot import runBot


@click.command()
def bot():
  '''Bot
  '''

  runBot()
```

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```
'''Small class to record data attached to a connection

FIXME: use this to enforce publish+subscribe permissions.

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'''

import uuid


class ConnectionState:
  def __init__(self, appkey):
      self.appkey = appkey
```

```
        self.connection_id = uuid.uuid4().hex[:8]
        self.subscriptions = {}
        self.ok = True
        self.role = 'na'
        self.authenticated = False
        self.permissions = []

        self.nonce = None
        self.error = 'na'

        self.path = f'/tmp/log_{self.connection_id}'
        self.fileLogging = False

    def log(self, msg):
        log = f"[{self.connection_id}::{self.role}] {msg}"
        print(log)

        if self.fileLogging:
            with open(self.path, 'a') as f:
                f.write(log + '\n')
```

Found in path(s):
* /cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/server/connection_state.py
No license file was found, but licenses were detected in source scan.

```
'''Run the cobra frontend

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'''

import os

import click
import sentry_sdk
import uvloop

from cobras.common.apps_config import getDefaultAppsConfigPath
from cobras.common.superuser import preventRootUsage
from cobras.server.app import AppRunner


@click.command()
@click.option('--host', envvar='COBRA_HOST', default='127.0.0.1',
              help='Binding host address. Set to 0.0.0.0 in prod environments')
@click.option('--port', envvar='COBRA_PORT', default='8765')
@click.option('--redis_urls', envvar='COBRA_REDIS_URLS',
              default='redis://localhost;redis://localhost')
```

```
@click.option('--redis_password', envvar='COBRA_REDIS_PASSWORD')
@click.option('--apps_config_path', envvar='COBRA_APPS_CONFIG',
          default=getDefaultAppsConfigPath())
@click.option('--verbose', envvar='COBRA_VERBOSE', is_flag=True)
@click.option('--prod', envvar='COBRA_PROD',
 is_flag=True)
@click.option('--plugins', envvar='COBRA_PLUGINS')
@click.option('--debug_memory', envvar='COBRA_DEBUG_MEMORY', is_flag=True)
@click.option('--sentry', envvar='COBRA_SENTRY', is_flag=True)
@click.option('--sentry_url', envvar='COBRA_SENTRY_URL')
@click.option('--no_stats', envvar='COBRA_NO_STATS', is_flag=True)
@click.option('--max_subscriptions', envvar='COBRA_MAX_SUSBSCRIPTIONS',
          default=-1)
@click.option('--idle_timeout', envvar='COBRA_IDLE_TIMEOUT',
          default=5 * 60,
          help='idle connections kicked out after X seconds')
def run(host, port, redis_urls, redis_password,
      apps_config_path, verbose, debug_memory, plugins,
      sentry, sentry_url, prod, no_stats, max_subscriptions, idle_timeout):
  '''Run the cobra server

  \b
  cobra run --redis_urls 'redis://localhost:7001;redis://localhost:7002'
  \b
  env COBRA_REDIS_PASSWORD=foobared cobra run
  '''
  if prod:
     os.environ['COBRA_PROD'] =
'1'

  preventRootUsage()
  uvloop.install()

  if sentry and sentry_url:
     sentry_sdk.init(sentry_url)

  print('runServer', locals())
  runner = AppRunner(host, port, redis_urls,
                redis_password, apps_config_path,
                verbose, debug_memory, plugins,
                not no_stats, max_subscriptions, idle_timeout)
  runner.run()
```

Found in path(s):
* /cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/run.py
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/bavarde/runner/client.py
* /cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/server/redis_kv_store.py
No license file was found, but licenses were detected in source scan.

'''Generate secrets used for authentication

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'''

import click

from cobras.common.apps_config import genSecret
from cobras.common.superuser import preventRootUsage

@click.command()
def secret():
  '''
  Generate secrets used for authentication

  \b
  cobra secret
  '''

  preventRootUsage()

  secret = genSecret()
  print(secret)

Found in path(s):
* /cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/secret.py
BSD-style without advertising clause
No license file was found, but licenses were detected in source scan.

'''Bavarde main driver.
  Calls into sub commands like git.

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'''

from pkgutil import walk_packages

import click
import coloredlogs

coloredlogs.install(level='WARNING')

```
@click.group()
@click.version_option()
def main():
  """\b

Bavarde is a chat app written on top of cobra
"""


for loader, module_name, is_pkg in walk_packages(__path__, __name__ + '.'):
  module = __import__(module_name, globals(), locals(), ['__name__'])
  cmd = getattr(module, module_name.rsplit('.', 1)[-1])
  if isinstance(cmd, click.Command):
    main.add_command(cmd)
```

Found in path(s):
* /cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/bavarde/runner/__init__.py
No license file was found, but licenses were detected in source scan.

```
'''Tools used when running as superuser (which we should almost never do)

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'''

import os
import sys

import click


def preventRootUsage():
  ''' Make sure a root user cannot run this command'''

  if os.geteuid() == 0:
    msg = 'Cobra cannot be run as root / sudo. Exiting'
    click.secho(msg, fg='red')
    sys.exit(1)
```

Found in path(s):
* /cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/superuser.py
No license file was found, but licenses were detected in source scan.

```
'''Utility for batch publishing.

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```

```
FIXME: Should be renamed
'''

import json


def computeEventTimeDeltas(events: str) -> list:

  lines = events.splitlines()
  N = len(lines)
  assert N > 0, 'event list should not be empty'

  events = [json.loads(line) for line in lines]

  deltas = []
  for i in range(1, N):
     previousTs = events[i - 1]['timestamp']
     currentTs = events[i]['timestamp']
     delta = currentTs - previousTs

     deltas.append((lines[i - 1], delta))

  deltas.append((lines[N-1], 0))

  return deltas
```

Found in path(s):
* /cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/client/publish.py
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```
'''Memoization decorator for functions taking one or more arguments.

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'''


def memoize(f):
  """Memoization decorator for functions taking one or more arguments."""

  class Memodict(dict):
     '''Helper class derived from dict'''

     def __init__(self, f):
        '''Constructor'''

        dict.__init__(self)
        self.f = f
```

```
        def __call__(self, *args):
            '''Call function'''

            return self[args]

        def __missing__(self, key):
            '''Missing method'''

            ret = self[key] = self.f(*key)
            return ret

    return Memodict(f)
```

Found in path(s):
* /cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/memoize.py
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```
'''Monitor cobra

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'''

import click
import uvloop

from cobras.client.credentials import (createCredentials, getDefaultRoleForApp,
                                       getDefaultSecretForApp)
from cobras.client.monitor import runMonitor
from cobras.common.apps_config import STATS_APPKEY
from cobras.common.superuser import preventRootUsage

DEFAULT_URL = f'ws://127.0.0.1:8765/v2?appkey={STATS_APPKEY}'


@click.command()
@click.option('--url', default=DEFAULT_URL)
@click.option('--role', default=getDefaultRoleForApp('stats'))
@click.option('--secret', default=getDefaultSecretForApp('stats'))
@click.option('--raw', is_flag=True)
@click.option('--hide_nodes', is_flag=True)
@click.option('--hide_roles', is_flag=True)
@click.option('--subscribers', is_flag=True)
@click.option('--role_filter')
@click.option('--system', is_flag=True)
def monitor(url, role, secret,
 raw, role_filter, hide_nodes, hide_roles, subscribers, system):
  '''Monitor cobra
  '''
```

```
  preventRootUsage()
  uvloop.install()

  credentials = createCredentials(role, secret)
  runMonitor(url, credentials, raw, role_filter,
          not hide_nodes, not hide_roles, subscribers, system)
```

Found in path(s):
* /cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/monitor.py
No license file was found, but licenses were detected in source scan.

```
'''Handle credential files

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'''

import os

from cobras.common.apps_config import AppsConfig, getDefaultAppsConfigPath


def createCredentials(role, secret):
  return {'role': role, 'secret': secret}


def getDefaultRoleForApp(app) -> str:
  path = os.getenv('COBRA_APPS_CONFIG', getDefaultAppsConfigPath())
  appsConfig = AppsConfig(path)
  return appsConfig.getDefaultRoleForApp(app)


def getDefaultSecretForApp(app) -> str:
  path = os.getenv('COBRA_APPS_CONFIG', getDefaultAppsConfigPath())
  appsConfig = AppsConfig(path)
  return appsConfig.getDefaultSecretForApp(app)
```

Found in path(s):
* /cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/client/credentials.py
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```
'''Subscribe to a channel

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'''

import click
import uvloop
```

```
from cobras.common.superuser import preventRootUsage
from cobras.common.throttle import Throttle
from cobras.server.redis_connections import RedisConnections
from cobras.server.redis_subscriber import (RedisSubscriberMessageHandlerClass,
                                    runSubscriber)


class MessageHandlerClass(RedisSubscriberMessageHandlerClass):
  def __init__(self, obj):
     self.cnt = 0
     self.cntPerSec = 0
     self.throttle = Throttle(seconds=1)

  def log(self, msg):
     print(msg)

  async def on_init(self, redisConnection):
     pass

  async def handleMsg(self, msg: str, position: str,
                  payloadSize: int) -> bool:
     self.cnt += 1
     self.cntPerSec += 1

     if self.throttle.exceedRate():
        return True

      print(f"#messages {self.cnt} msg/s {self.cntPerSec}")
     self.cntPerSec = 0

     return True


@click.command()
@click.option('--redis_urls', default='redis://localhost')
@click.option('--redis_password')
@click.option('--channel')
@click.option('--appkey')
@click.option('--position')
def redis_subscribe(redis_urls, redis_password, channel, position, appkey):
  '''Subscribe to a channel

  \b
  cobra subscribe --redis_urls redis://localhost:7379 --channel foo --appkey bar  # noqa

  \b
  cobra subscribe --redis_urls redis://redis:6379 --channel foo --appkey bar
```

```
  [From a bench container]

  \b
  cobra subscribe --redis_urls 'redis://localhost:7001;redis://localhost:7002' --channel foo --appkey bar  # noqa
  '''

  preventRootUsage()
  uvloop.install()

  appChannel = '{}::{}'.format(appkey, channel)
  redisConnections = RedisConnections(redis_urls, redis_password)
  runSubscriber(redisConnections, appChannel, position, MessageHandlerClass)
```

```
Found
 in path(s):
* /cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/redis_subscribe.py
No license file was found, but licenses were detected in source scan.

'''Publish jobs gets enqueued into a multi-publisher, which publish them
to redis in a batch fashion, using a pipeline.

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https://redis.io/topics/pipelining
Weird leaks https://bugs.python.org/issue31620
'''

import asyncio


class PipelinedPublisher():
  def __init__(self, redis, batchSize=None):
      self.redis = redis
      self.queue = asyncio.Queue()
      self.batchSize = batchSize or 100
      self.lock = asyncio.Lock()

      self.xaddMaxLength = 1000

  async def publishAll(self):
      pipe = self.redis.pipeline()
      async with self.lock:
          while True:
              try:
                  job = self.queue.get_nowait()
              except asyncio.QueueEmpty:
                  break
              else:
```

```
                self.publish(pipe, job)
                self.queue.task_done()

        await pipe.execute()

    def enqueue(self, job):
        self.queue.put_nowait(job)

    def publish(self, pipe, job):
        appkey, channel, data = job
        appChannel = '{}::{}'.format(appkey, channel)
        pipe.xadd(appChannel, {'json': data},
                max_len=self.xaddMaxLength, exact_len=False)

    async def publishNow(self, job):
        async with self.lock:
            pipe = self.redis.pipeline()
            self.publish(pipe, job)
            await pipe.execute()

    async def push(self, job, batchPublish=False):
        if not batchPublish:
            await self.publishNow(job)
            return

        self.enqueue(job)

        if self.queue.qsize() >= self.batchSize:
            await self.publishAll()
```

Found in path(s):
* /cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/server/pipelined_publisher.py
No license file was found, but licenses were detected in source scan.

```
'''Compute our version number

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'''

import pkg_resources

from cobras.common.memoize import memoize


def getVersion():
    '''Get our own version using pkg_resources'''

    return pkg_resources.get_distribution("cobras").version
```

Found in path(s):
* /cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/version.py

1.633 go-runewidth 0.0.13

1.633.1 Available under license :

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1.634 canonical-candid 1.10.2

1.634.1 Available under license :

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all
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more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

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and
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with subsection 6b.

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References

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10. mailto:site-policy@w3.org
11. http://w3.org/Help/Webmaster.html

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regarding their license.

From: "Joseph M. Reagle Jr. (W3C)" <reagle@w3.org>
Subject: Re: copyright question concerning published DTDs
To: Adam Di Carlo <adam@onshore.com>
Date: 22 Mar 1999 14:08:40 -0500
Replied: Mon, 22 Mar 1999 15:43:05 -0500
Replied: ""Joseph M. Reagle Jr. (W3C)" <reagle@w3.org> "
Return-Path: root@burrito.onshore.com
Received: from root by burrito.fake with local
(Exim 2.05 #1 (Debian))
id 10PAD9-0002Yu-00; Mon, 22 Mar 1999 14:18:07 -0500
Received: from tux.w3.org (IDENT:root@tux.w3.org [18.29.0.27])
by queso.onshore.com (8.9.2/8.9.1/Debian/GNU) with ESMTP id NAA00675
for <adam@onshore.com>; Mon, 22 Mar 1999 13:08:43 -0600 (EST)
Received: from policy (root@localhost [127.0.0.1])
by tux.w3.org (8.8.7/8.8.7) with SMTP id OAA11727
for <adam@onshore.com>; Mon, 22 Mar 1999 14:08:41 -0500
Message-Id: <3.0.5.32.19990322140840.00a36100@localhost>
X-Sender: reagle@localhost
X-Mailer: QUALCOMM Windows Eudora Pro Version 3.0.5 (32)
In-Reply-To: <E10P8rg-0002Nx-00@burrito.fake>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-UIDL: 825580178c326d3a9d02a165e429c532
Sender: root <root@burrito.onshore.com>

At 12:51 PM 3/22/99 -0500, Adam Di Carlo wrote:
>Hello. I have the responsibility of assessing the current copyright
>of W3C DTDs accompanying your specifications, on behalf of the Debian
>project <URL:http://www.debian.org/>.

Interesting
question Adam!

>I would think that the W3C is
>happy to allow derivative DTDs so long as they don't represent
>themselves as W3C standards? If so, would it be possible to get
>clarification about the licensing and rights granted for DTDs?

You are right with respect to our general approach. I suspect that as long as the DOCTYPE is different from our own, and they attribute it as a work derived from W3C, we'd give permission. Let me bounce this off a few folks here, and I'll get you a definitive answer shortly.

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Local variables:
mode: outline
End:

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1.657 gvalkov-golang-evdev 0.0.0-20191114124502-287e62b94bcb

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1.660 canonical-go-sp800.90a-drbg 0.0.0-20210314144037-6eeb1040d6c3

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1.661 snapcore-secboot 0.0.0-20211018143212-802bb19ca263

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1.683 snapcore-go-gettext 0.0.0-20191107141714-82bbea49e785

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1.684 bmake 20181221-2

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* /bmake-20181221-orig-tar-gz/bmake/metachar.c
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:
# NAME:
# install-mk - install mk files
#
# SYNOPSIS:
# install-mk [options] [var=val] [dest]
#
# DESCRIPTION:
# This tool installs mk files in a semi-intelligent manner into
# "dest".
#
# Options:
#
# -n just say what we want to do, but don't touch anything.
#
# -f use -f when copying sys,mk.
#
# -v be verbose
#
# -q be quiet
#
# -m "mode"
#  Use "mode" for installed files (444).
#
# -o "owner"
#  Use "owner" for installed files.
#
# -g "group"
#  Use "group" for installed files.
#
# var=val
#  Set "var" to "val".  See below.
#
```

```
# All our *.mk files are copied to "dest" with appropriate
# ownership and permissions.
#
# By default if a sys.mk can be found in a standard location
# (that bmake will find) then no sys.mk will be put in "dest".
#
# SKIP_SYS_MK:
#  If set, we will avoid installing our 'sys.mk'
#  This is probably a bad idea.
#
# SKIP_BSD_MK:
#  If set, we will skip making bsd.*.mk links to *.mk
#
# sys.mk:
#
# By
 default (and provided we are not installing to the system
# mk dir - '/usr/share/mk') we install our own 'sys.mk' which
# includes a sys specific file, or a generic one.
#
#
# AUTHOR:
#       Simon J. Gerraty <sjg@crufty.net>

# RCSid:
# $Id: install-mk,v 1.160 2018/09/20 00:07:19 sjg Exp $
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#

MK_VERSION=20180919
OWNER=
GROUP=
MODE=444
BINMODE=555
ECHO=:
SKIP=
cp_f=-f
```

```
while :
do
 case "$1" in
 *=*) eval "$1"; shift;;
 +f) cp_f=; shift;;
 -f) cp_f=-f; shift;;
 -m) MODE=$2; shift 2;;
 -o) OWNER=$2; shift 2;;
 -g) GROUP=$2; shift 2;;
 -v) ECHO=echo; shift;;
 -q) ECHO=:; shift;;
 -n) ECHO=echo SKIP=:; shift;;
 --)
 shift; break;;
 *) break;;
 esac
done

case $# in
0) echo "$0 [options] <destination> [<os>]"
 echo "eg."
 echo "$0 -o bin -g bin -m 444 /usr/local/share/mk"
 exit 1
 ;;
esac
dest=$1
os=${2:-`uname`}
osrel=${3:-`uname -r`}

Do() {
 $ECHO "$@"
 $SKIP "$@"
}

Error() {
 echo "ERROR: $@" >&2
 exit 1
}

Warning() {
 echo "WARNING: $@" >&2
}

[ "$FORCE_SYS_MK" ] && Warning "ignoring: FORCE_{BSD,SYS}_MK (no longer supported)"

SYS_MK_DIR=${SYS_MK_DIR:-/usr/share/mk}
SYS_MK=${SYS_MK:-$SYS_MK_DIR/sys.mk}
```

```
realpath() {
 [ -d $1 ] && cd $1 && 'pwd' && return
 echo $1
}

if [ -s $SYS_MK -a -d $dest ]; then
 # if this is a BSD system we don't want to touch $SYS_MK
 dest=`realpath $dest`
 sys_mk_dir=`realpath $SYS_MK_DIR`
 if [ $dest = $sys_mk_dir ]; then
  case "$os" in
  *BSD*) SKIP_SYS_MK=:
   SKIP_BSD_MK=:
   ;;
  *) # could be fake?
   if [ ! -d $dest/sys -a ! -s $dest/Generic.sys.mk ]; then
    SKIP_SYS_MK=: # play safe
    SKIP_BSD_MK=:
   fi
   ;;
  esac
 fi
fi

[ -d $dest/sys ] ||
 Do mkdir -p $dest/sys
[ -d $dest/sys ] || Do mkdir $dest/sys || exit 1
[ -z "$SKIP" ] && dest=`realpath $dest`

cd `dirname $0`
mksrc=`'pwd'`
if [ $mksrc = $dest ]; then
 SKIP_MKFILES=:
else
 # we do not install the examples
 mk_files=`grep '^[a-z].*\.mk' FILES | egrep -v '(examples/|^sys\.mk|sys/)'`
 mk_scripts=`egrep '^[a-z].*\.(sh|py)' FILES | egrep -v '/'`
 sys_mk_files=`grep 'sys/.*\.mk' FILES`
 SKIP_MKFILES=
 [ -z "$SKIP_SYS_MK" ] && mk_files="sys.mk $mk_files"
fi
$SKIP_MKFILES Do cp $cp_f $mk_files $dest
$SKIP_MKFILES Do cp $cp_f $sys_mk_files $dest/sys
$SKIP_MKFILES Do cp $cp_f $mk_scripts $dest
$SKIP cd $dest
$SKIP_MKFILES Do chmod $MODE $mk_files $sys_mk_files
$SKIP_MKFILES Do chmod $BINMODE $mk_scripts
```

```
[ "$GROUP" ] && $SKIP_MKFILES Do chgrp $GROUP $mk_files $sys_mk_files
[ "$OWNER" ] && $SKIP_MKFILES Do chown $OWNER $mk_files $sys_mk_files
# if this is a BSD system the bsd.*.mk should exist and be used.
if [ -z "$SKIP_BSD_MK" ]; then
 for f in dep doc files inc init lib links
 man nls obj own prog subdir
 do
  b=bsd.$f.mk
  [ -s $b ] || Do ln -s $f.mk $b
 done
fi
exit 0
```

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.\"
.\" from: @(#)make.1 8.4 (Berkeley) 3/19/94
.\"
.\" The escaped newline is retained and passed to the shell, which
.\" normally ignores it.
.\" However, the tab at the beginning of the following line is removed.
.\" :[n]
.\" :[start..end]
.\" :[*]
.\"
 :[0]
.\" :[*]
.\" :[#]
.\" :[range]
.\" .It Ic .INVISIBLE
.\" XXX
.\" .It Ic .JOIN
.\" XXX
.\" XXX: NOT YET!!!!
.\" .It Ic .NOTPARALLEL
.\" The named targets are executed in non parallel mode.
.\" If no targets are
.\" specified, then all targets are executed in non parallel mode.
```

.\" XXX: NOT YET!!!!
.\" .It Ic .PARALLEL
.\" The named targets are executed in parallel mode.
.\" If no targets are
.\" specified, then all targets are executed in parallel mode.

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* /bmake-20181221-orig-tar-gz/bmake/mk/host.libnames.mk

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/*
* RCSid:
* $Id: wait.h,v 1.6 2002/11/26 07:53:06 sjg Exp $
```

```
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```
:
# NAME:
# boot-strap
#
# SYNOPSIS:
# boot-strap ["options"]
# boot-strap --prefix=/opt --install
# boot-strap --prefix=$HOME --install-host-target -DWITH_PROG_VERSION
# boot-strap ["options"] op=build
# boot-strap ["options"] op=install
#
# DESCRIPTION:
# This script is used to configure/build bmake it builds for
# each host-target in a different subdir to keep the src clean.
# There is no requirement for an existing make(1).
#
# On successful completion if no '--install' flag is given,
# it echos a command to do installation.
#
# The variable "op" defaults to 'all', and is affected by
# '--install' flag as above.
# Other values include:
#
# configure
#  Just run 'configure'
#
# build
```

```
#  If 'configure' has not been done, do it, then
#  run the build script, and finally 'test'.
#
# install
#  If 'build' has not been done, do it, 'test' then
#  install.
#
# clean
#  attempt to clean up
#
# test
#  run the unit-tests.
  Done automatically after 'build'
#  and before 'install'.
#
# The above are leveraged by a trivial makefile for the benefit
# of those that have './configure; make; make install' baked
# into them.
#
# Options:
#
# -c "rc"
#  Pick up settings from "rc".
#  We look for '.bmake-boot-strap.rc' before processing
#  options (unless SKIP_RC is set in environment).
#
# --share "share_dir"
#  Where to put man pages and mk files.
#  If $prefix ends in $HOST_TARGET, and $prefix/../share
#  exits, the default will be that rather than $prefix/share.
#
# --mksrc "mksrc"
#  Indicate where the mk files can be found.
#  Default is $Mydir/mk
#
# --install
#  If build and test work, run bmake install.
#  BINDIR=$prefix/bin
#  SHAREDIR=$prefix/share
#
# --install-host-target
#  As for '--install' but BINDIR=$prefix/$HOST_TARGET/bin
#  This is useful when $prefix/ is shared by multiple
#  machines.
#
# Flags relevant when installing:
#
# -DWITHOUT_INSTALL_MK
```

```
#  Skip installing mk files.
#  By default
 they will be installed to $prefix/share/mk
#
# -DWITH_PROG_VERSION
#  Install 'bmake' as 'bmake-$MAKE_VERSION'
#  A symlink will be made as 'bmake' unless
#  -DWITHOUT_PROG_LINK is set.
#
# Possibly useful configure_args:
#
# --without-meta
#  disable use of meta mode.
#
# --without-filemon
#  disable use of filemon(9) which is currently only
#  available for NetBSD and FreeBSD.
#
# --with-filemon="path/to/filemon.h"
#  enables use of filemon(9) by meta mode.
#
# --with-machine="machine"
#  set "machine" to override that determined by
#  machine.sh
#
# --with-force-machine="machine"
#  force "machine" even if uname(3) provides a value.
#
# --with-machine_arch="machine_arch"
#  set "machine_arch" to override that determined by
#  machine.sh
#
# --with-default-sys-path="syspath"
#  set an explicit default "syspath" which is where bmake
#  will look for sys.mk and friends.
#
# AUTHOR:
# Simon J. Gerraty <sjg@crufty.net>

# RCSid:
# $Id: boot-strap,v 1.49 2016/05/29 00:09:14 sjg Exp $
#
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#

Mydir=`dirname $0`
. "$Mydir/os.sh"
case "$Mydir" in
/*) ;;
*) Mydir=`cd "$Mydir" && 'pwd'`;;
esac

Usage() {
 [ "$1" ] && echo "ERROR: $@" >&2
 echo "Usage:" >&2
 echo "$0 [--<configure_arg> ...][<prefix>][--install]" >&2
 exit 1
}

Error() {
 echo "ERROR: $@" >&2
 exit 1
}

source_rc() {
 rc="$1"; shift
 for d in ${*:-""}
 do
  r="${d:+$d/}$rc"
  [ -f "$r" -a -s "$r" ] || continue
  echo "NOTE: reading $r"
  . "$r"
  break
 done
}

cmd_args="$@"

# clear some things from the environment that we care about
unset MAKEOBJDIR MAKEOBJDIRPREFIX

# --install[-host-target] will set this
INSTALL_PREFIX=
# other things
```

```
 we pass to install step
INSTALL_ARGS=
CONFIGURE_ARGS=
MAKESYSPATH=
# pick a useful default prefix (for me at least ;-)
for prefix in /opt/$HOST_TARGET "$HOME/$HOST_TARGET" /usr/pkg /usr/local ""
do
 [ -d "${prefix:-.}" ] || continue
 case "$prefix" in
 */$HOST_TARGET)
  p=`dirname $prefix`
  if [ -d $p/share ]; then
   INSTALL_BIN=$HOST_TARGET/bin
   prefix=$p
  fi
  ;;
 esac
      echo "NOTE: default prefix=$prefix ${INSTALL_BIN:+INSTALL_BIN=$INSTALL_BIN}"
 break
done
srcdir=$Mydir
mksrc=$Mydir/mk
objdir=
quiet=:

${SKIP_RC:+:} source_rc .bmake-boot-strap.rc . "$Mydir/.." "$HOME"

get_optarg() {
 expr "x$1" : "x[^=]*=\\(.*\\)"
}

here=`'pwd'`
if [ $here = $Mydir ]; then
  # avoid pollution
  OBJROOT=../
fi

op=all
BMAKE=

while :
do
 case "$1" in
 --) shift; break;;
      --help) sed -n -e "1d;/RCSid/,\$d" -e '/^#\.[a-z]/d' -e '/^#/s,^# *,,p' $0; exit 0;;
 --prefix) prefix="$2"; shift;;
 --prefix=*) prefix=`get_optarg "$1"`;;
 --src=*) srcdir=`get_optarg "$1"`;;
```

```
 --with-mksrc=*|--mksrc=*)
 mksrc=`get_optarg "$1"`;;
 --share=*) share_dir=`get_optarg "$1"`;;
 --share) share_dir="$2"; shift;;
 --with-default-sys-path=*)
    CONFIGURE_ARGS="$1";;
 --with-default-sys-path)
    CONFIGURE_ARGS="$1 $2";;
 --install) INSTALL_PREFIX=${INSTALL_PREFIX:-$prefix};;
 --install-host-target)
            INSTALL_PREFIX=${INSTALL_PREFIX:-$prefix}
            INSTALL_BIN=$HOST_TARGET/bin;;
 --install-destdir=*) INSTALL_DESTDIR=`get_optarg "$1"`;;
 --install-prefix=*) INSTALL_PREFIX=`get_optarg "$1"`;;
 -DWITH*) INSTALL_ARGS="$INSTALL_ARGS $1";;
 -s|--src) srcdir="$2"; shift;;
 -m|--mksrc) mksrc="$2"; shift;;
 -o|--objdir) objdir="$2"; shift;;
 -q) quiet=;;
 -c) source_rc "$2"; shift;;
 --*) CONFIGURE_ARGS="$CONFIGURE_ARGS $1";;
 *=*) eval "$1"; export `expr "x$1" : "x\\(.[^=]*\\)=.*"`;;
 *) break;;
 esac
      shift
done

AddConfigure() {
 case " $CONFIGURE_ARGS " in
 *" $1"*) ;;
 *) CONFIGURE_ARGS="$CONFIGURE_ARGS $1$2";;
 esac
}

GetDir() {
 match="$1"
 shift
 fmatch="$1"
 shift
 for
 dir in $*
 do
  [ -d "$dir" ] || continue
  case "/$dir/" in
  *$match*) ;;
  *) continue;;
  esac
  case "$fmatch" in
```

```
 .) ;;
 *) [ -s $dir/$fmatch ] || continue;;
 esac
 case "$dir/" in
 *./*) cd "$dir" && 'pwd';;
 /*) echo $dir;;
 *) cd "$dir" && 'pwd';;
 esac
 break
 done
}

FindHereOrAbove() {
  (
 _t=-s
 while :
 do
 case "$1" in
 -C) cd "$2"; shift; shift;;
 -?) _t=$1; shift;;
 *) break;;
 esac
 done
 case "$1" in
 /*) # we shouldn't be here
 [ $_t "$1" ] && echo "$1"
 return
 ;;
 .../*) want=`echo "$1" | sed 's,^.../*,,'`;;
 *) want="$1";;
 esac
 here=`'pwd'`
 while :
 do
 if [ $_t "./$want" ]; then
  echo "$here/$want"
  return
 fi
 cd ..
 here=`'pwd'`
 case "$here" in
 /) return;;
 esac
 done
  )
}

# is $1 missing from $2 (or PATH) ?
```

```
no_path() {
 eval "__p=\$${2:-PATH}"
 case ":$__p:" in *:"$1":*) return 1;; *) return 0;; esac
}

# if $1 exists and is not in path, append it
add_path () {
 case "$1" in
 -?) t=$1; shift;;
 *)
 t=-d;;
 esac
 case "$2,$1" in
 MAKESYSPATH,.../*) ;;
 *) [ $t ${1:-.} ] || return;;
 esac
 no_path $* && eval ${2:-PATH}="$__p${__p:+:}$1"
}


srcdir=`GetDir /bmake make-bootstrap.sh.in "$srcdir" "$2" "$Mydir" ./bmake* "$Mydir"/../bmake*`
[ -d "${srcdir:-/dev/null}" ] || Usage
case "$mksrc" in
none|-) # we ignore this now
 mksrc=$Mydir/mk
 ;;
.../*) # find here or above
 mksrc=`FindHereOrAbove -C "$Mydir" -s "$mksrc/sys.mk"`
 # that found a file
 mksrc=`dirname $mksrc`
 ;;
*) # guess we want mksrc...
 mksrc=`GetDir /mk sys.mk "$mksrc" "$3" ./mk* "$srcdir"/mk* "$srcdir"/../mk*`
 [ -d "${mksrc:-/dev/null}" ] || Usage "Use '-m none' to build without mksrc"
 ;;
esac

# Ok, get to work...
objdir="${objdir:-$OBJROOT$HOST_TARGET}"
[ -d "$objdir" ] || mkdir -p "$objdir"
[ -d "$objdir" ] || mkdir "$objdir"
cd "$objdir" || exit 1
# make it absolute
objdir=`'pwd'`

ShareDir() {
 case "/$1" in
 /) [ -d /share ] || return;;
```

```
 */$HOST_TARGET)
  if [ -d "$1/../share" ]; then
   echo `dirname "$1"`/share
   return
  fi
  ;;
 esac
 echo
 $1/share
}

# make it easy to force prefix to use $HOST_TARGET
: looking at "$prefix"
case "$prefix" in
*/host?target) prefix=`echo "$prefix" | sed "s,host.target,${HOST_TARGET},"`;;
esac

share_dir="${share_dir:-`ShareDir $prefix`}"

AddConfigure --prefix= "$prefix"
case "$CONFIGURE_ARGS" in
*--with-*-sys-path*) ;; # skip
*) [ "$share_dir" ] && AddConfigure --with-default-sys-path= "$share_dir/mk";;
esac
if [ "$mksrc" ]; then
	AddConfigure --with-mksrc= "$mksrc"
	# not all cc's support this
	CFLAGS_MF= CFLAGS_MD=
	export CFLAGS_MF CFLAGS_MD
fi

# this makes it easy to run the bmake we just built
# the :tA dance is needed because 'pwd' and even /bin/pwd
# may not give the same result as realpath().
Bmake() {
  (
    cd $Mydir &&
    MAKESYSPATH=$mksrc SRCTOP=$Mydir OBJTOP=$objdir \
    MAKEOBJDIR='${.CURDIR:S,${SRCTOP:tA},${OBJTOP:tA},}' \
    ${BMAKE:-$objdir/bmake} -f $Mydir/Makefile "$@"
  )
}

# there is actually
 a shell where type is not a builtin
# if type is missing, which(1) had better exists!
if (type cat) > /dev/null 2>&1; then
which() {
```

```
        type "$@" | sed 's,[()],,g;s,^[^/][^/]*,,;q'
}
fi
# make sure test below uses the same diff that configure did
TOOL_DIFF=`which diff`
export TOOL_DIFF

op_configure() {
 $srcdir/configure $CONFIGURE_ARGS || exit 1
}

op_build() {
 [ -s make-bootstrap.sh ] || op_configure
 chmod 755 make-bootstrap.sh || exit 1
 ./make-bootstrap.sh || exit 1
 case "$op" in
 build) op_test;;
 esac
}

op_test() {
 [ -x bmake ] || op_build
 Bmake test || exit 1
}

op_clean() {
 if [ -x bmake ]; then
  ln bmake bmake$$
  BMAKE=$objdir/bmake$$ Bmake clean
  rm -f bmake$$
 elif [ $objdir != $srcdir ]; then
  rm -rf *
 fi
}

op_install() {
 op_test
 case "$INSTALL_PREFIX,$INSTALL_BIN,$prefix" in
 ,$HOST_TARGET/bin,*/$HOST_TARGET)
  INSTALL_PREFIX=`dirname $prefix`
  ;;
 esac
 INSTALL_PREFIX=${INSTALL_PREFIX:-$prefix}
 Bmake install prefix=$INSTALL_PREFIX BINDIR=$INSTALL_PREFIX/${INSTALL_BIN:-bin}
 ${INSTALL_DESTDIR:+DESTDIR=$INSTALL_DESTDIR} $INSTALL_ARGS || exit 1
}

op_all() {
```

```
 rm -f make-bootstrap.sh bmake *.o
 if [ -n "$INSTALL_PREFIX" ]; then
  op_install
 else
  op_test
  MAKE_VERSION=`sed -n '/^_MAKE_VERSION/ { s,.*=  *,,;p; }' $srcdir/Makefile`
  echo You can install by running:
  echo
  echo $0 $cmd_args op=install
  echo
  echo "Use --install-prefix=/something to install somewhere other than $prefix"
  echo "Use --install-destdir=/somewhere to set DESTDIR during install"
  echo "Use --install-host-target to use INSTALL_BIN=$HOST_TARGET/bin"
  echo "Use -DWITH_PROG_VERSION to install as bmake-$MAKE_VERSION"
  echo "Use -DWITHOUT_PROG_LINK to suppress bmake -> bmake-$MAKE_VERSION symlink"
  echo "Use -DWITHOUT_INSTALL_MK to skip installing files to $prefix/share/mk"
 fi
}

op_$op
exit 0
```

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* /bmake-20181221-orig-tar-gz/bmake/make.c
* /bmake-20181221-orig-tar-gz/bmake/parse.c
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.\" @(#)tutorial.ms 8.1 (Berkeley) 8/18/93
.\"

.\" Ix is an indexing macro similar to .IX but I've disabled it for now
.\" Since that would require 2 passes and I am not in the mood for that.
.\" Rd is section (region) define
 and Rm is region mention? Again disable for
.\" now.
.\" xH is a macro to provide numbered headers that are automatically stuffed
.\" into a table-of-contents, properly indented, etc. If the first argument
.\" is numeric, it is taken as the depth for numbering (as for .NH), else
.\" the default (1) is assumed.
.\"
.\" @P The initial paragraph distance.
.\" @Q The piece of section number to increment (or 0 if none given)
.\" @R Section header.
.\" @S Indent for toc entry
.\" @T Argument to NH (can't use @Q b/c giving 0 to NH resets the counter)
.\" CW is used to place a string in fixed-width or switch to a
.\" fixed-width font.
.\" C is a typewriter font for a laserwriter. Use something else if
.\" you don't have one...
.\" Anything I put in a display I want to be in fixed-width
.\" The stuff in .No produces a little stop sign in the left margin
.\" that says NOTE in it. Unfortunately, it does cause a break, but
.\" hey. Can't have everything. In case you're wondering how I came
.\"
 up with such weird commands, they came from running grn on a
.\" gremlin file...
.\" .st cf
.\" Output table of contents last, with an entry for the index, making
.\" sure to save and restore the last real page number for the index...
.\" We are not generating an index
.\" .XS \n(@n
.\" Index
.\" .XE

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* /bmake-20181221-orig-tar-gz/bmake/lst.lib/lstLast.c
* /bmake-20181221-orig-tar-gz/bmake/lst.lib/lstPrev.c
* /bmake-20181221-orig-tar-gz/bmake/lst.lib/lstForEachFrom.c
*
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* /bmake-20181221-orig-tar-gz/bmake/lst.lib/lstFind.c
* /bmake-20181221-orig-tar-gz/bmake/lst.lib/lstSucc.c
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1.686 digitalocean-go-qemu 0.0.0-20210326154740-ac9e0b687001

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1.687 ninja 1.10.0-1build1

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1.688 nasm 2.14.02-1

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1.689 mdlayher-vsock 0.0.0-20210303205602-10d591861736

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1.692 juju-go4 0.0.0-20160222163258-40d72ab9641a

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*/

// Package legal provides in-process storage for compiled-in licenses.
package legal

var licenses []string

// RegisterLicense stores the license text.
// It doesn't check whether the text was already present.
func RegisterLicense(text string) {
 licenses = append(licenses, text)
 return
}

// Licenses returns a slice of the licenses.
func Licenses() []string {
 return licenses
}
/*
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package legal

import (
 "testing"
)

func TestRegisterLicense(t *testing.T) {
 initial := len(licenses)
```

```
 RegisterLicense("dummy")
 if initial+1 != len(licenses) {
  t.Fatal("didn't add a license")
 }
}
```

1.693 gopkg.in-macaroon-bakery 2.3.0

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1.695 mvo5-goconfigparser 0.0.0-20200803085309-72e476556adb

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1.696 secureboot-db 1.6~20.04.1

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1.700 juju-persistent-cookiejar 0.0.0-20171026135701-d5e5a8405ef9

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1.701 python-distutils-extra 2.43

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1.703 pongo 0.0.0-20200913210552-0d938eb266f3

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1.704 libsub-override-perl 0.09-2

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NAME

Sub::Override - Perl extension for easily overriding subroutines

VERSION

0.09

SYNOPSIS

```
use Sub::Override;

sub foo { 'original sub' };
print foo(); # prints 'original sub'

my $override = Sub::Override->new( foo => sub { 'overridden sub' } );
print foo(); # prints 'overridden sub'
$override->restore;
print foo(); # prints 'original sub'
```

DESCRIPTION

The Problem

Sometimes subroutines need to be overridden. In fact, your author does this constantly for tests. Particularly when testing, using a Mock Object can be overkill when all you want to do is override one tiny, little function.

Overriding a subroutine is often done with syntax similar to the following.

```
{
 local *Some::sub = sub {'some behavior'};
 # do something
}
# original subroutine behavior restored
```

This has a few problems.

```
{
 local *Get::some_feild = { 'some behavior' };
  # do something
}
```

In the above example, not only have we probably misspelled the subroutine name, but even if their had been a subroutine with that name, we haven't overridden it. These two bugs can be subtle to detect.

Further, if we're attempting to localize the effect by placing this code in a block, the entire construct is cumbersome.

Hook::LexWrap also allows us to override sub behavior, but I can never remember the exact syntax.

An easier way to replace subroutines

Instead, `Sub::Override` allows the programmer to simply name the sub to
replace and to supply a sub to replace it with.

```
  my $override = Sub::Override->new('Some::sub', sub {'new data'});

  # which is equivalent to:
  my $override = Sub::Override->new;
  $override->replace('Some::sub', sub { 'new data' });
```

You can replace multiple subroutines, if needed:

```
  $override->replace('Some::sub1', sub { 'new data1' });
  $override->replace('Some::sub2', sub { 'new data2' });
  $override->replace('Some::sub3',
sub { 'new data3' });
```

If replacing the subroutine succeeds, the object is returned. This allows the
programmer to chain the calls, if this style of programming is preferred:

```
  $override->replace('Some::sub1', sub { 'new data1' })
        ->replace('Some::sub2', sub { 'new data2' })
        ->replace('Some::sub3', sub { 'new data3' });
```

If the subroutine has a prototype, the new subroutine should be declared with
same prototype as original one:

```
  $override->replace('Some::sub_with_proto', sub ($$) { ($_[0], $_ [1]) });
```

A subroutine may be replaced as many times as desired. This is most useful
when testing how code behaves with multiple conditions.

```
  $override->replace('Some::thing', sub { 0 });
  is($object->foo, 'wibble', 'wibble is returned if Some::thing is false');

  $override->replace('Some::thing', sub { 1 });
  is($object->foo, 'puppies', 'puppies are returned if Some::thing is true');
```

Restoring subroutines

If the object falls
 out of scope, the original subs are restored. However, if
you need to restore a subroutine early, just use the restore method:

```
  my $override = Sub::Override->new('Some::sub', sub {'new data'});
  # do stuff
  $override->restore;
```

Which is somewhat equivalent to:

```
  {
    my $override = Sub::Override->new('Some::sub', sub {'new data'});
    # do stuff
  }
```

If you have override more than one subroutine with an override object, you will have to explicitly name the subroutine you wish to restore:

```
  $override->restore('This::sub');
```

Note `restore()` will always restore the original behavior of the subroutine no matter how many times you have overridden it.

Which package is the subroutine in?

Ordinarily, you want to fully qualify the subroutine by including the package name. However, failure to fully qualify the subroutine name will assume the current package.

```
  package Foo;
  use Sub::Override;
  sub foo { 23 };
  my $override = Sub::Override->new( foo =>
sub { 42 } ); # assumes Foo::foo
  print foo(); # prints 42
  $override->restore;
  print foo(); # prints 23
```

METHODS

new

```
  my $sub = Sub::Override->new;
  my $sub = Sub::Override->new($sub_name, $sub_ref);
```

Creates a new `Sub::Override` instance. Optionally, you may override a subroutine while creating a new object.

replace

```
  $sub->replace($sub_name, $sub_body);
```

Temporarily replaces a subroutine with another subroutine. Returns the instance, so chaining the method is allowed:

```
  $sub->replace($sub_name, $sub_body)
     ->replace($another_sub, $another_body);
```

This method will `croak` is the subroutine to be replaced does not exist.

override

```
  my $sub = Sub::Override->new;
  $sub->override($sub_name, $sub_body);
```

`override` is an alternate name for `replace`. They are the same method.

restore

```
  $sub->restore($sub_name);
```

Restores the previous behavior of the subroutine. This will happen
automatically if the `Sub::Override` object falls
 out of scope.

EXPORT

None by default.

BUGS

Probably. Tell me about 'em.

SEE ALSO

- Hook::LexWrap -- can also override subs, but with different capabilities
- Test::MockObject -- use this if you need to alter an entire class

AUTHOR

Curtis "Ovid" Poe, `<ovid [at] cpan [dot] org>`

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=head1 NAME

Sub::Override - Perl extension for easily overriding subroutines

=head1 VERSION

0.09

=head1 SYNOPSIS

```
 use Sub::Override;

 sub foo { 'original sub' };
 print foo(); # prints 'original sub'

 my $override = Sub::Override->new( foo => sub { 'overridden sub' } );
 print foo(); # prints 'overridden sub'
 $override->restore;
 print foo(); # prints 'original sub'
```

=head1 DESCRIPTION

=head2 The Problem

Sometimes subroutines need to be overridden. In fact, your author does this constantly for tests. Particularly when testing, using a Mock Object can be overkill when all you want to do is override one tiny, little function.

Overriding a subroutine is often done with syntax similar to the following.

```
{
  local *Some::sub = sub {'some behavior'};
  # do something
}
# original subroutine behavior restored
```

This has a few problems.

```
{
  local *Get::some_feild = { 'some behavior' };
  # do something
 }
```

In the above example, not only have we probably misspelled the subroutine name, but even if their had been a subroutine with that name, we haven't overridden it. These two bugs can be subtle to detect.

Further, if we're attempting to localize the effect by placing this code in a block, the entire construct is cumbersome.

Hook::LexWrap also allows us to override sub behavior, but I can never remember the exact syntax.

=head2 An easier way to replace subroutines

Instead, C<Sub::Override> allows the programmer to simply name the sub to replace and to supply a sub to replace it with.

```
 my $override = Sub::Override->new('Some::sub', sub {'new data'});

 # which is equivalent to:
 my $override = Sub::Override->new;
 $override->replace('Some::sub', sub { 'new data' });
```

You can replace multiple subroutines, if needed:

```
 $override->replace('Some::sub1', sub { 'new data1' });
 $override->replace('Some::sub2', sub { 'new data2' });
 $override->replace('Some::sub3', sub { 'new
 data3' });
```

If replacing the subroutine succeeds, the object is returned. This allows the programmer to chain the calls, if this style of programming is preferred:

```
 $override->replace('Some::sub1', sub { 'new data1' })
        ->replace('Some::sub2', sub { 'new data2' })
        ->replace('Some::sub3', sub { 'new data3' });
```

If the subroutine has a prototype, the new subroutine should be declared with same prototype as original one:

```
 $override->replace('Some::sub_with_proto', sub ($$) { ($_[0], $_ [1]) });
```

A subroutine may be replaced as many times as desired. This is most useful when testing how code behaves with multiple conditions.

```
 $override->replace('Some::thing', sub { 0 });
 is($object->foo, 'wibble', 'wibble is returned if Some::thing is false');

 $override->replace('Some::thing', sub { 1 });
 is($object->foo, 'puppies', 'puppies are returned if Some::thing is true');
```

=head2 Restoring subroutines

If the object falls out of scope, the original subs are restored.
 However, if
you need to restore a subroutine early, just use the restore method:

```
my $override = Sub::Override->new('Some::sub', sub {'new data'});
# do stuff
$override->restore;
```

Which is somewhat equivalent to:

```
{
  my $override = Sub::Override->new('Some::sub', sub {'new data'});
  # do stuff
}
```

If you have override more than one subroutine with an override object, you
will have to explicitly name the subroutine you wish to restore:

```
$override->restore('This::sub');
```

Note C<restore()> will always restore the original behavior of the subroutine
no matter how many times you have overridden it.

=head2 Which package is the subroutine in?

Ordinarily, you want to fully qualify the subroutine by including the package
name. However, failure to fully qualify the subroutine name will assume the
current package.

```
package Foo;
use Sub::Override;
sub foo { 23 };
my $override = Sub::Override->new( foo => sub { 42 } ); # assumes Foo::foo
print foo(); # prints
42
$override->restore;
print foo(); # prints 23
```

=head1 METHODS

=head2 new

```
my $sub = Sub::Override->new;
my $sub = Sub::Override->new($sub_name, $sub_ref);
```

Creates a new C<Sub::Override> instance. Optionally, you may override a
subroutine while creating a new object.

=head2 replace

$sub->replace($sub_name, $sub_body);

Temporarily replaces a subroutine with another subroutine. Returns the
instance, so chaining the method is allowed:

$sub->replace($sub_name, $sub_body)
   ->replace($another_sub, $another_body);

This method will C<croak> is the subroutine to be replaced does not exist.

=head2 override

my $sub = Sub::Override->new;
$sub->override($sub_name, $sub_body);

C<override> is an alternate name for C<replace>. They are the same method.

=cut

=head2 restore

$sub->restore($sub_name);

Restores the previous behavior of the subroutine. This will happen
automatically if the C<Sub::Override> object falls out of scope.

=cut

=head1 EXPORT

None by default.

=head1
 BUGS

Probably. Tell me about 'em.

=head1 SEE ALSO

=over 4

=item *
Hook::LexWrap -- can also override subs, but with different capabilities

=item *
Test::MockObject -- use this if you need to alter an entire class

=back

=head1 AUTHOR

Curtis "Ovid" Poe, C<< <ovid [at] cpan [dot] org> >>

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---
abstract: 'Perl extension for easily overriding subroutines'
author:
 - 'Curtis Poe <ovid@cpan.org>'
build_requires:
 ExtUtils::MakeMaker: 0
configure_requires:
 ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.120630'
license: unknown
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: 1.4
name: Sub-Override
no_index:
 directory:
   - t
   - inc
requires:
 Test::Fatal: 0.010
 Test::More: 0.47
resources:
 repository: https://github.com/Ovid/sub-override

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Sub-Override version 0.01
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INSTALLATION

To install this module type the following:

```
perl Makefile.PL
make
make test
make install
```

DEPENDENCIES

This module requires these other modules and libraries:

None

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1.706 python-zipp 1.0.0-1

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1.708 optipng 0.7.7-1

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1.709 gopkg.in-httprequest 1.2.1

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1.710 systemd-bootchart 233-2

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-->

<!-- ..... -->

<!-- This module contains the definitions for elements that are
   isomorphic to the HTML elements. One could argue we should
   instead have based ourselves on the XHTML Table Module, but the
   HTML one is more like what browsers are likely to accept today
   and users are likely to use.

   This module has been developed for use with the DocBook V4.3
   "union table model" in which elements and attlists common to both
   models are defined
 (as the union) in the CALS table module by
   setting various parameter entities appropriately in this file.

   In DTD driver files referring to this module, please use an entity
   declaration that uses the public identifier shown below:

   <!ENTITY % htmltbl PUBLIC
   "-//OASIS//ELEMENTS DocBook XML HTML Tables V4.3//EN"
   "htmltblx.mod">
   %htmltbl;

   See the documentation for detailed information on the parameter
   entity and module scheme used in DocBook, customizing DocBook and
   planning for interchange, and changes made since the last release
   of DocBook.
-->

<!--======================== XHTML Tables ====================================-->

<!ENTITY % html.coreattrs
"id         ID           #IMPLIED
 class      CDATA        #IMPLIED
 style      CDATA        #IMPLIED
 title      CDATA        #IMPLIED"
 >

<!-- Does not contain lang or dir because they are in %common.attribs -->
<!ENTITY % i18n
"xml:lang    NMTOKEN
```

```
 #IMPLIED"
 >

<!ENTITY % events
"onclick     CDATA       #IMPLIED
 ondblclick  CDATA       #IMPLIED
 onmousedown CDATA       #IMPLIED
 onmouseup   CDATA       #IMPLIED
 onmouseover CDATA       #IMPLIED
 onmousemove CDATA       #IMPLIED
 onmouseout  CDATA       #IMPLIED
 onkeypress  CDATA       #IMPLIED
 onkeydown   CDATA       #IMPLIED
 onkeyup     CDATA       #IMPLIED"
 >

<!ENTITY % attrs "%html.coreattrs; %i18n; %events;">

<!ENTITY % cellhalign
 "align      (left|center|right|justify|char) #IMPLIED
  char       CDATA    #IMPLIED
  charoff    CDATA       #IMPLIED"
 >

<!ENTITY % cellvalign
 "valign     (top|middle|bottom|baseline) #IMPLIED"
 >

<!ELEMENT colgroup (col)*>
<!ELEMENT col      EMPTY>
<!ELEMENT tr       (th|td)+>
<!ELEMENT th       (%para.char.mix; | %tabentry.mix;)*>
<!ELEMENT td       (%para.char.mix; | %tabentry.mix;)*>

<!ATTLIST colgroup
 %attrs;
 span       CDATA       "1"
 width      CDATA  #IMPLIED
 %cellhalign;
 %cellvalign;
 >

<!ATTLIST
 col
 %attrs;
 span       CDATA       "1"
 width      CDATA  #IMPLIED
 %cellhalign;
```

```
 %cellvalign;
 >

<!ATTLIST tr
 %attrs;
 %cellhalign;
 %cellvalign;
 bgcolor     CDATA       #IMPLIED
 >

<!ATTLIST th
 %attrs;
 abbr        CDATA        #IMPLIED
 axis        CDATA        #IMPLIED
 headers     IDREFS       #IMPLIED
 scope       (row|col|rowgroup|colgroup)   #IMPLIED
 rowspan     CDATA       "1"
 colspan     CDATA       "1"
 %cellhalign;
 %cellvalign;
 nowrap      (nowrap)      #IMPLIED
 bgcolor     CDATA        #IMPLIED
 width       CDATA       #IMPLIED
 height      CDATA       #IMPLIED
 >

<!ATTLIST td
 %attrs;
 abbr        CDATA        #IMPLIED
 axis        CDATA        #IMPLIED
 headers     IDREFS       #IMPLIED
 scope       (row|col|rowgroup|colgroup)   #IMPLIED
 rowspan     CDATA       "1"
 colspan     CDATA       "1"
 %cellhalign;
 %cellvalign;
 nowrap      (nowrap)      #IMPLIED
 bgcolor     CDATA        #IMPLIED
 width
    CDATA       #IMPLIED
 height      CDATA       #IMPLIED
 >

<!-- ================================================== -->
<!--       Set up to read in the CALS model configured to
         merge with the XHTML table model              -->
<!-- ================================================== -->
```

```
<!ENTITY % tables.role.attrib "%role.attrib;">

<!-- Add label and role attributes to table and informaltable -->
<!ENTITY % bodyatt "
  floatstyle CDATA   #IMPLIED
             %label.attrib;"
>

<!-- Add common attributes to Table, TGroup, TBody, THead, TFoot, Row,
    EntryTbl, and Entry (and InformalTable element). -->

<!ENTITY % secur "
 %common.attrib;
 class       CDATA         #IMPLIED
 style       CDATA         #IMPLIED
 title       CDATA         #IMPLIED
 %i18n;
 %events;
 %tables.role.attrib;">

<!ENTITY % common.table.attribs
 "%bodyatt;
 %secur;">

<!-- Content model for Table (that also allows HTML tables) -->
<!ENTITY % tbl.table.mdl
 "((blockinfo?,

         (%formalobject.title.content;),
         (%ndxterm.class;)*,
         textobject*,
         (graphic+|mediaobject+|tgroup+))
        |(caption, (col*|colgroup*), thead?, tfoot?, (tbody+|tr+)))">

<!ENTITY % informal.tbl.table.mdl
 "(textobject*,
        (graphic+|mediaobject+|tgroup+))
        | ((col*|colgroup*), thead?, tfoot?, (tbody+|tr+))">

<!-- Attributes for Table (including HTML ones) -->
<!ENTITY % tbl.table.att        '
   tabstyle    CDATA          #IMPLIED
   tocentry    %yesorno.attvals;       #IMPLIED
   shortentry  %yesorno.attvals;       #IMPLIED
   orient      (port|land)    #IMPLIED
   pgwide      %yesorno.attvals;       #IMPLIED
   summary     CDATA          #IMPLIED
   width       CDATA        #IMPLIED
```

```
  border      CDATA       #IMPLIED
  rules       (none | groups | rows | cols | all)      #IMPLIED
  cellspacing CDATA       #IMPLIED
  cellpadding CDATA       #IMPLIED
  align       (left|center|right)   #IMPLIED
  bgcolor
    CDATA       #IMPLIED
'>

<!ENTITY % tbl.frame.attval "void|above|below|hsides|lhs|rhs|vsides|box|border|
top|bottom|topbot|all|sides|none">

<!-- Allow either objects or inlines; beware of REs between elements. -->
<!ENTITY % tbl.entry.mdl "%para.char.mix; | %tabentry.mix;">

<!-- thead, tfoot, and tbody are defined in both table models,
   so we set up parameter entities to define union models for them
-->

<!ENTITY % tbl.hdft.mdl       "(tr+|(colspec*,row+))">
<!ENTITY % tbl.tbody.mdl      "(tr+|row+)">
<!ENTITY % tbl.valign.attval   "top|middle|bottom|baseline">

Found in path(s):
* /docbook-xml-4-5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-4.3/htmltblx.mod
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<!-- ..... -->
<!-- DocBook notations module V4.4 ..... -->
<!-- File dbnotnx.mod ..... -->

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   Organization for the Advancement of Structured Information
   Standards (OASIS).

   $Id: dbnotnx.mod,v 1.31 2005/01/27 13:52:00 nwalsh Exp $

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```

```
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   information, see http://www.oasis-open.org/docbook/.
-->

<!-- ..................................................................... -->

<!-- This module contains the notation declarations used by DocBook.

   In DTD driver files referring to this module, please use an entity
   declaration that uses the public identifier shown below:

   <!ENTITY % dbnotn PUBLIC
   "-//OASIS//ENTITIES DocBook Notations V4.4//EN"
   "dbnotnx.mod">
   %dbnotn;

   See the documentation for detailed
 information on the parameter
   entity and module scheme used in DocBook, customizing DocBook and
   planning for interchange, and changes made since the last release
   of DocBook.
-->

<!ENTITY % local.notation.class "">
<!ENTITY % notation.class
  "BMP| CGM-CHAR | CGM-BINARY | CGM-CLEAR | DITROFF | DVI
  | EPS | EQN | FAX | GIF | GIF87a | GIF89a
  | JPG | JPEG | IGES | PCX
  | PIC | PNG | PS | SGML | TBL | TEX | TIFF | WMF | WPG
            | SVG | PDF | SWF
  | linespecific
  %local.notation.class;">

<!NOTATION BMP  PUBLIC
"+//ISBN 0-7923-94.2-1::Graphic Notation//NOTATION Microsoft Windows bitmap//EN">
<!NOTATION CGM-CHAR PUBLIC "ISO 8632/2//NOTATION Character encoding//EN">
<!NOTATION CGM-BINARY PUBLIC "ISO 8632/3//NOTATION Binary encoding//EN">
<!NOTATION CGM-CLEAR PUBLIC "ISO 8632/4//NOTATION Clear text encoding//EN">
<!NOTATION DITROFF SYSTEM "DITROFF">
<!NOTATION DVI  SYSTEM "DVI">
<!NOTATION EPS  PUBLIC
"+//ISBN 0-201-18127-4::Adobe//NOTATION PostScript Language
```

```
 Ref. Manual//EN">
<!NOTATION EQN  SYSTEM "EQN">
<!NOTATION FAX  PUBLIC
"-//USA-DOD//NOTATION CCITT Group 4 Facsimile Type 1 Untiled Raster//EN">
<!NOTATION GIF  SYSTEM "GIF">
<!NOTATION GIF87a             PUBLIC
"-//CompuServe//NOTATION Graphics Interchange Format 87a//EN">

<!NOTATION GIF89a             PUBLIC
"-//CompuServe//NOTATION Graphics Interchange Format 89a//EN">
<!NOTATION JPG  SYSTEM "JPG">
<!NOTATION JPEG  SYSTEM "JPG">
<!NOTATION IGES  PUBLIC
"-//USA-DOD//NOTATION (ASME/ANSI Y14.26M-1987) Initial Graphics Exchange Specification//EN">
<!NOTATION PCX  PUBLIC
"+//ISBN 0-7923-94.2-1::Graphic Notation//NOTATION ZSoft PCX bitmap//EN">
<!NOTATION PIC  SYSTEM "PIC">
<!NOTATION PNG         SYSTEM "http://www.w3.org/TR/REC-png">
<!NOTATION PS  SYSTEM "PS">
<!NOTATION SGML  PUBLIC
"ISO 8879:1986//NOTATION Standard Generalized Markup Language//EN">
<!NOTATION TBL  SYSTEM "TBL">
<!NOTATION TEX  PUBLIC
"+//ISBN 0-201-13448-9::Knuth//NOTATION The TeXbook//EN">
<!NOTATION TIFF  SYSTEM
 "TIFF">
<!NOTATION WMF  PUBLIC
"+//ISBN 0-7923-94.2-1::Graphic Notation//NOTATION Microsoft Windows Metafile//EN">
<!NOTATION WPG  SYSTEM "WPG"> <!--WordPerfect Graphic format-->
<!NOTATION SVG  SYSTEM "http://www.w3.org/TR/SVG/">
<!NOTATION PDF  SYSTEM "http://www.adobe.com/products/acrobat/adobepdf.html">
<!NOTATION SWF         SYSTEM "http://www.macromedia.com/software/flash">
<!NOTATION linespecific SYSTEM "linespecific">

<!-- End of DocBook notations module V4.4 ..... -->
<!-- ..... -->

Found in path(s):
* /docbook-xml-4-5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-4.4/dbnotnx.mod
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<!-- ..... -->
<!-- DocBook notations module V4.2 ..... -->
<!-- File dbnotnx.mod ..... -->

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$Id: dbnotnx.mod,v 1.13 2002/07/17 15:26:16 nwalsh Exp $

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changes to the docbook@lists.oasis-open.org mailing list. For more
information, see http://www.oasis-open.org/docbook/.
-->

<!-- ..... -->

<!-- This module contains the entity declarations for the standard ISO
entity sets used by DocBook.

In DTD driver files referring to this module, please use an entity
declaration that uses the public identifier shown below:

<!ENTITY % dbnotn PUBLIC
"-//OASIS//ENTITIES DocBook Notations V4.2//EN"
"dbnotnx.mod">
%dbnotn;

See the documentation for detailed information on the parameter
entity and module scheme used in DocBook, customizing DocBook and
planning for interchange, and changes made since the last release
of DocBook.
-->

<!ENTITY % local.notation.class "">
<!ENTITY % notation.class
"BMP| CGM-CHAR | CGM-BINARY | CGM-CLEAR | DITROFF | DVI
| EPS | EQN | FAX | GIF | GIF87a | GIF89a
| JPG | JPEG | IGES | PCX

```
 | PIC | PNG | PS | SGML | TBL | TEX | TIFF | WMF | WPG
           | SVG
 | linespecific
 %local.notation.class;">

<!NOTATION BMP  PUBLIC
"+//ISBN 0-7923-9432-1::Graphic Notation//NOTATION Microsoft Windows bitmap//EN">
<!NOTATION CGM-CHAR PUBLIC "ISO 8632/2//NOTATION Character encoding//EN">
<!NOTATION CGM-BINARY PUBLIC "ISO 8632/3//NOTATION Binary encoding//EN">
<!NOTATION CGM-CLEAR PUBLIC "ISO 8632/4//NOTATION Clear text encoding//EN">
<!NOTATION DITROFF SYSTEM "DITROFF">
<!NOTATION DVI  SYSTEM "DVI">
<!NOTATION EPS  PUBLIC
"+//ISBN 0-201-18127-4::Adobe//NOTATION
 PostScript Language Ref. Manual//EN">
<!NOTATION EQN  SYSTEM "EQN">
<!NOTATION FAX  PUBLIC
"-//USA-DOD//NOTATION CCITT Group 4 Facsimile Type 1 Untiled Raster//EN">
<!NOTATION GIF  SYSTEM "GIF">
<!NOTATION GIF87a             PUBLIC
"-//CompuServe//NOTATION Graphics Interchange Format 87a//EN">

<!NOTATION GIF89a             PUBLIC
"-//CompuServe//NOTATION Graphics Interchange Format 89a//EN">
<!NOTATION JPG  SYSTEM "JPG">
<!NOTATION JPEG  SYSTEM "JPG">
<!NOTATION IGES  PUBLIC
"-//USA-DOD//NOTATION (ASME/ANSI Y14.26M-1987) Initial Graphics Exchange Specification//EN">
<!NOTATION PCX  PUBLIC
"+//ISBN 0-7923-9432-1::Graphic Notation//NOTATION ZSoft PCX bitmap//EN">
<!NOTATION PIC  SYSTEM "PIC">
<!NOTATION PNG         SYSTEM "http://www.w3.org/TR/REC-png">
<!NOTATION PS  SYSTEM "PS">
<!NOTATION SGML  PUBLIC
"ISO 8879:1986//NOTATION Standard Generalized Markup Language//EN">
<!NOTATION TBL  SYSTEM "TBL">
<!NOTATION TEX  PUBLIC
"+//ISBN 0-201-13448-9::Knuth//NOTATION The TeXbook//EN">
<!NOTATION
 TIFF  SYSTEM "TIFF">
<!NOTATION WMF  PUBLIC
"+//ISBN 0-7923-9432-1::Graphic Notation//NOTATION Microsoft Windows Metafile//EN">
<!NOTATION WPG  SYSTEM "WPG"> <!--WordPerfect Graphic format-->
<!NOTATION SVG  SYSTEM "http://www.w3.org/TR/SVG/">
<!NOTATION linespecific SYSTEM "linespecific">

<!-- End of DocBook notations module V4.2 ..... -->
<!-- ..... -->
```

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DOD//DTD Table Model 951010//EN"

$Id: calstblx.dtd,v 1.27 2005/01/27 13:52:00 nwalsh Exp $

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*
/docbook-xml-4-5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-4.4/calstblx.dtd
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<!-- ..... -->
<!-- DocBook XML character entities module V4.0 ..... -->
<!-- File dbcentx.mod ..... -->

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$Id: dbcentx.mod,v 1.6 2000/05/18 19:40:49 nwalsh Exp $

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    changes to the docbook@lists.oasis-open.org mailing list. For more
    information, see http://www.oasis-open.org/docbook/.
-->

<!-- ..................................................................... -->

<!-- This module contains the entity declarations for the standard ISO
    entity sets used by DocBook.

    In DTD driver files referring to this module, please use an entity
    declaration that uses the public identifier shown below:

    <!ENTITY % dbcent PUBLIC
    "-//OASIS//ENTITIES DocBook XML Character Entities V4.0//EN"
    "dbcentx.mod">
    %dbcent;

    See the
 documentation for detailed information on the parameter
    entity and module scheme used in DocBook, customizing DocBook and
    planning for interchange, and changes made since the last release
    of DocBook.
-->

<!-- ..................................................................... -->

<!ENTITY % ISOamsa.module "INCLUDE">
<![%ISOamsa.module;[
<!ENTITY % ISOamsa PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Arrow Relations//EN//XML"
"ent/iso-amsa.ent">
%ISOamsa;
<!--end of ISOamsa.module-->]]>

<!ENTITY % ISOamsb.module "INCLUDE">
<![%ISOamsb.module;[
<!ENTITY % ISOamsb PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Binary Operators//EN//XML"
"ent/iso-amsb.ent">
```

```
%ISOamsb;
<!--end of ISOamsb.module-->]]>

<!ENTITY % ISOamsc.module "INCLUDE">
<![%ISOamsc.module;[
<!ENTITY % ISOamsc PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Delimiters//EN//XML"
"ent/iso-amsc.ent">
%ISOamsc;
<!--end of ISOamsc.module-->]]>

<!ENTITY % ISOamsn.module "INCLUDE">
<![%ISOamsn.module;[
<!ENTITY
 % ISOamsn PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Negated Relations//EN//XML"
"ent/iso-amsn.ent">
%ISOamsn;
<!--end of ISOamsn.module-->]]>

<!ENTITY % ISOamso.module "INCLUDE">
<![%ISOamso.module;[
<!ENTITY % ISOamso PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Ordinary//EN//XML"
"ent/iso-amso.ent">
%ISOamso;
<!--end of ISOamso.module-->]]>

<!ENTITY % ISOamsr.module "INCLUDE">
<![%ISOamsr.module;[
<!ENTITY % ISOamsr PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Relations//EN//XML"
"ent/iso-amsr.ent">
%ISOamsr;
<!--end of ISOamsr.module-->]]>

<!ENTITY % ISObox.module "INCLUDE">
<![%ISObox.module;[
<!ENTITY % ISObox PUBLIC
"ISO 8879:1986//ENTITIES Box and Line Drawing//EN//XML"
"ent/iso-box.ent">
%ISObox;
<!--end of ISObox.module-->]]>

<!ENTITY % ISOcyr1.module "INCLUDE">
<![%ISOcyr1.module;[
<!ENTITY % ISOcyr1 PUBLIC
"ISO 8879:1986//ENTITIES Russian Cyrillic//EN//XML"
```

"ent/iso-cyr1.ent">
%ISOcyr1;
<!--end of ISOcyr1.module-->]]>

<!ENTITY
 % ISOcyr2.module "INCLUDE">
<![%ISOcyr2.module;[
<!ENTITY % ISOcyr2 PUBLIC
"ISO 8879:1986//ENTITIES Non-Russian Cyrillic//EN//XML"
"ent/iso-cyr2.ent">
%ISOcyr2;
<!--end of ISOcyr2.module-->]]>

<!ENTITY % ISOdia.module "INCLUDE">
<![%ISOdia.module;[
<!ENTITY % ISOdia PUBLIC
"ISO 8879:1986//ENTITIES Diacritical Marks//EN//XML"
"ent/iso-dia.ent">
%ISOdia;
<!--end of ISOdia.module-->]]>

<!ENTITY % ISOgrk1.module "INCLUDE">
<![%ISOgrk1.module;[
<!ENTITY % ISOgrk1 PUBLIC
"ISO 8879:1986//ENTITIES Greek Letters//EN//XML"
"ent/iso-grk1.ent">
%ISOgrk1;
<!--end of ISOgrk1.module-->]]>

<!ENTITY % ISOgrk2.module "INCLUDE">
<![%ISOgrk2.module;[
<!ENTITY % ISOgrk2 PUBLIC
"ISO 8879:1986//ENTITIES Monotoniko Greek//EN//XML"
"ent/iso-grk2.ent">
%ISOgrk2;
<!--end of ISOgrk2.module-->]]>

<!ENTITY % ISOgrk3.module "INCLUDE">
<![%ISOgrk3.module;[
<!ENTITY % ISOgrk3 PUBLIC
"ISO 8879:1986//ENTITIES Greek Symbols//EN//XML"
"ent/iso-grk3.ent">
%ISOgrk3;
<!--end of ISOgrk3.module-->]]>

<!ENTITY % ISOgrk4.module
 "INCLUDE">
<![%ISOgrk4.module;[

```
<!ENTITY % ISOgrk4 PUBLIC
"ISO 8879:1986//ENTITIES Alternative Greek Symbols//EN//XML"
"ent/iso-grk4.ent">
%ISOgrk4;
<!--end of ISOgrk4.module-->]]>

<!ENTITY % ISOlat1.module "INCLUDE">
<![%ISOlat1.module;[
<!ENTITY % ISOlat1 PUBLIC
"ISO 8879:1986//ENTITIES Added Latin 1//EN//XML"
"ent/iso-lat1.ent">
%ISOlat1;
<!--end of ISOlat1.module-->]]>

<!ENTITY % ISOlat2.module "INCLUDE">
<![%ISOlat2.module;[
<!ENTITY % ISOlat2 PUBLIC
"ISO 8879:1986//ENTITIES Added Latin 2//EN//XML"
"ent/iso-lat2.ent">
%ISOlat2;
<!--end of ISOlat2.module-->]]>

<!ENTITY % ISOnum.module "INCLUDE">
<![%ISOnum.module;[
<!ENTITY % ISOnum PUBLIC
"ISO 8879:1986//ENTITIES Numeric and Special Graphic//EN//XML"
"ent/iso-num.ent">
%ISOnum;
<!--end of ISOnum.module-->]]>

<!ENTITY % ISOpub.module "INCLUDE">
<![%ISOpub.module;[
<!ENTITY % ISOpub PUBLIC
"ISO 8879:1986//ENTITIES Publishing//EN//XML"
"ent/iso-pub.ent">
%ISOpub;
<!--end of ISOpub.module-->]]>

<!ENTITY % ISOtech.module "INCLUDE">
<![%ISOtech.module;[
<!ENTITY
 % ISOtech PUBLIC
"ISO 8879:1986//ENTITIES General Technical//EN//XML"
"ent/iso-tech.ent">
%ISOtech;
<!--end of ISOtech.module-->]]>

<!-- End of DocBook XML character entity sets module V4.0 ..... -->
```

<!-- ..... -->

Found in path(s):
* /docbook-xml-4-5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-4.0/dbcentx.mod
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<!-- ..... -->
<!-- DocBook XML HTML Table Module V4.5 ..... -->
<!-- File htmltblx.mod ..... -->

<!-- Copyright 2003-2006 ArborText, Inc., Norman Walsh, Sun Microsystems,
Inc., and the Organization for the Advancement of Structured Information
Standards (OASIS).

$Id: htmltblx.mod 6340 2006-10-03 13:23:24Z nwalsh $

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Please direct all questions, bug reports, or suggestions for
changes to the docbook@lists.oasis-open.org mailing list. For more
information, see http://www.oasis-open.org/docbook/.
-->

<!-- ..... -->

<!-- This module contains the definitions for elements that are
isomorphic to the HTML elements. One could argue we should
instead have based ourselves on the XHTML Table Module, but the
HTML one is more like what browsers are likely to accept today
and users are likely to use.

This module has been developed for use with the DocBook V4.5
"union table model" in which elements and attlists common to both
models are defined
(as the union) in the CALS table module by
setting various parameter entities appropriately in this file.

```
   In DTD driver files referring to this module, please use an entity
   declaration that uses the public identifier shown below:

   <!ENTITY % htmltbl PUBLIC
   "-//OASIS//ELEMENTS DocBook XML HTML Tables V4.5//EN"
   "htmltblx.mod">
   %htmltbl;

   See the documentation for detailed information on the parameter
   entity and module scheme used in DocBook, customizing DocBook and
   planning for interchange, and changes made since the last release
   of DocBook.
-->

<!--======================== XHTML Tables ====================================-->

<!ENTITY % html.coreattrs
"%common.attrib;
 class      CDATA        #IMPLIED
 style      CDATA        #IMPLIED
 title      CDATA        #IMPLIED"
 >

<!-- Does not contain lang or dir because they are in %common.attribs -->
<![%sgml.features;[
<!ENTITY % i18n "">
]]>
<!ENTITY % i18n
"xml:lang
   NMTOKEN       #IMPLIED"
 >

<!ENTITY % events
"onclick     CDATA       #IMPLIED
 ondblclick  CDATA       #IMPLIED
 onmousedown CDATA       #IMPLIED
 onmouseup   CDATA       #IMPLIED
 onmouseover CDATA       #IMPLIED
 onmousemove CDATA       #IMPLIED
 onmouseout  CDATA       #IMPLIED
 onkeypress  CDATA       #IMPLIED
 onkeydown   CDATA       #IMPLIED
 onkeyup     CDATA       #IMPLIED"
 >

<!ENTITY % attrs "%html.coreattrs; %i18n; %events;">
```

```
<!ENTITY % cellhalign
 "align      (left|center|right|justify|char) #IMPLIED
  char       CDATA    #IMPLIED
  charoff    CDATA       #IMPLIED"
 >

<!ENTITY % cellvalign
 "valign     (top|middle|bottom|baseline) #IMPLIED"
 >

<!--doc:A group of columns in an HTML table.-->
<!ELEMENT colgroup %ho; (col)*>
<!--doc:Specifications for a column in an HTML table.-->
<!ELEMENT col %ho; EMPTY>
<!--doc:A row in an HTML table.-->
<!ELEMENT tr %ho;  (th|td)+>
<!--doc:A table header entry in an HTML table.-->
<!ELEMENT th %ho;  (%para.char.mix;
 | %tabentry.mix; | table | informaltable)*>
<!--doc:A table ntry in an HTML table.-->
<!ELEMENT td %ho;  (%para.char.mix; | %tabentry.mix; | table | informaltable)*>

<!ATTLIST colgroup
 %attrs;
 span       CDATA       "1"
 width      CDATA  #IMPLIED
 %cellhalign;
 %cellvalign;
 >

<!ATTLIST col
 %attrs;
 span       CDATA       "1"
 width      CDATA  #IMPLIED
 %cellhalign;
 %cellvalign;
 >

<!ATTLIST tr
 %attrs;
 %cellhalign;
 %cellvalign;
 bgcolor     CDATA       #IMPLIED
 >

<!ATTLIST th
 %attrs;
 abbr       CDATA        #IMPLIED
```

```
 axis       CDATA          #IMPLIED
 headers    IDREFS         #IMPLIED
 scope      (row|col|rowgroup|colgroup)   #IMPLIED
 rowspan    CDATA       "1"
 colspan    CDATA       "1"
 %cellhalign;
 %cellvalign;
 nowrap     (nowrap)       #IMPLIED
 bgcolor    CDATA          #IMPLIED
 width      CDATA       #IMPLIED
 height     CDATA       #IMPLIED
 >

<!ATTLIST td
 %attrs;
 abbr       CDATA          #IMPLIED
  axis      CDATA          #IMPLIED
 headers    IDREFS         #IMPLIED
 scope      (row|col|rowgroup|colgroup)   #IMPLIED
 rowspan    CDATA       "1"
 colspan    CDATA       "1"
 %cellhalign;
 %cellvalign;
 nowrap     (nowrap)       #IMPLIED
 bgcolor    CDATA          #IMPLIED
 width      CDATA       #IMPLIED
 height     CDATA       #IMPLIED
 >

<!-- ================================================== -->
<!--       Set up to read in the CALS model configured to
        merge with the XHTML table model              -->
<!-- ================================================== -->

<!ENTITY % tables.role.attrib "%role.attrib;">

<!-- Add label and role attributes to table and informaltable -->
<!ENTITY % bodyatt "
 floatstyle CDATA   #IMPLIED
 rowheader (firstcol|norowheader) #IMPLIED
           %label.attrib;"
>

<!-- Add common attributes to Table, TGroup, TBody, THead, TFoot, Row,
   EntryTbl, and Entry (and InformalTable element). -->

<!ENTITY
```

```
% secur "
%common.attrib;
class       CDATA          #IMPLIED
style       CDATA          #IMPLIED
title       CDATA         #IMPLIED
%i18n;
%events;
%tables.role.attrib;">

<!ENTITY % common.table.attribs
"%bodyatt;
%secur;">

<!-- Content model for Table (that also allows HTML tables) -->
<!ENTITY % tbl.table.mdl
"((blockinfo?,
        (%formalobject.title.content;),
        (%ndxterm.class;)*,
        textobject*,
        (graphic+|mediaobject+|tgroup+))
       |(caption, (col*|colgroup*), thead?, tfoot?, (tbody+|tr+)))">

<!ENTITY % informal.tbl.table.mdl
"(textobject*,
        (graphic+|mediaobject+|tgroup+))
       | ((col*|colgroup*), thead?, tfoot?, (tbody+|tr+))">

<!-- Attributes for Table (including HTML ones) -->

<!-- N.B. rules = (none | groups | rows | cols | all) but it can't be spec'd -->
<!-- that way because 'all' already occurs in a different enumeration in -->
<!-- CALS tables (frame). -->

<!ENTITY % tbl.table.att        '

  tabstyle    CDATA           #IMPLIED
   tocentry    %yesorno.attvals;       #IMPLIED
   shortentry  %yesorno.attvals;       #IMPLIED
   orient      (port|land)     #IMPLIED
   pgwide      %yesorno.attvals;       #IMPLIED
   summary     CDATA          #IMPLIED
   width       CDATA        #IMPLIED
   border      CDATA        #IMPLIED
   rules       CDATA  #IMPLIED
   cellspacing CDATA        #IMPLIED
   cellpadding CDATA        #IMPLIED
   align       (left|center|right)   #IMPLIED
   bgcolor     CDATA         #IMPLIED
```

'>

<!ENTITY % tbl.frame.attval "void|above|below|hsides|lhs|rhs|vsides|box|border|
top|bottom|topbot|all|sides|none">

<!-- Allow either objects or inlines; beware of REs between elements. -->
<!ENTITY % tbl.entry.mdl "%para.char.mix; | %tabentry.mix;">

<!-- thead, tfoot, and tbody are defined in both table models,
   so we set up parameter entities to define union models for them
-->

<!ENTITY % tbl.hdft.mdl   "(tr+|(colspec*,row+))">
<!ENTITY % tbl.tbody.mdl
      "(tr+|row+)">
<!ENTITY % tbl.valign.attval   "top|middle|bottom|baseline">

<!-- End of DocBook XML HTML Table Module V4.5 ..... -->
<!-- ..... -->

Found in path(s):
* /docbook-xml-4-5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-4.5/htmltblx.mod
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<!-- ..... -->
<!-- DocBook character entities module V4.2 ..... -->
<!-- File dbcentx.mod ..... -->

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   $Id: dbcentx.mod,v 1.12 2002/07/17 15:26:16 nwalsh Exp $

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   additional notations, label your DTD as a variant of DocBook. See
   the maintenance documentation for more information.

```
   Please direct all questions, bug reports, or suggestions for
   changes to the docbook@lists.oasis-open.org mailing list. For more
   information, see http://www.oasis-open.org/docbook/.
-->

<!-- ..................................................................... -->

<!-- This module contains the entity declarations for the standard ISO
   entity sets used by DocBook.

   In DTD driver files referring to this module, please use an entity
   declaration that uses the public identifier shown below:

   <!ENTITY % dbcent PUBLIC
   "-//OASIS//ENTITIES DocBook Character Entities V4.2//EN"
   "dbcentx.mod">
   %dbcent;

    See the documentation for detailed information on the parameter
   entity and module scheme used in DocBook, customizing DocBook and
   planning for interchange, and changes made since the last release
   of DocBook.
-->

<!-- ..................................................................... -->

<![%sgml.features;[

<!ENTITY % ISOamsa.module "INCLUDE">
<![ %ISOamsa.module; [
<!ENTITY % ISOamsa PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Arrow Relations//EN">
<!--end of ISOamsa.module-->]]>

<!ENTITY % ISOamsb.module "INCLUDE">
<![ %ISOamsb.module; [
<!ENTITY % ISOamsb PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Binary Operators//EN">
<!--end of ISOamsb.module-->]]>

<!ENTITY % ISOamsc.module "INCLUDE">
<![ %ISOamsc.module; [
<!ENTITY % ISOamsc PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Delimiters//EN">
<!--end of ISOamsc.module-->]]>

<!ENTITY % ISOamsn.module "INCLUDE">
```

```
<![ %ISOamsn.module; [
<!ENTITY % ISOamsn PUBLIC
"ISO 8879:1986//ENTITIES
 Added Math Symbols: Negated Relations//EN">
<!--end of ISOamsn.module-->]]>

<!ENTITY % ISOamso.module "INCLUDE">
<![ %ISOamso.module; [
<!ENTITY % ISOamso PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Ordinary//EN">
<!--end of ISOamso.module-->]]>

<!ENTITY % ISOamsr.module "INCLUDE">
<![ %ISOamsr.module; [
<!ENTITY % ISOamsr PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Relations//EN">
<!--end of ISOamsr.module-->]]>

<!ENTITY % ISObox.module "INCLUDE">
<![ %ISObox.module; [
<!ENTITY % ISObox PUBLIC
"ISO 8879:1986//ENTITIES Box and Line Drawing//EN">
<!--end of ISObox.module-->]]>

<!ENTITY % ISOcyr1.module "INCLUDE">
<![ %ISOcyr1.module; [
<!ENTITY % ISOcyr1 PUBLIC
"ISO 8879:1986//ENTITIES Russian Cyrillic//EN">
<!--end of ISOcyr1.module-->]]>

<!ENTITY % ISOcyr2.module "INCLUDE">
<![ %ISOcyr2.module; [
<!ENTITY % ISOcyr2 PUBLIC
"ISO 8879:1986//ENTITIES Non-Russian Cyrillic//EN">
<!--end of ISOcyr2.module-->]]>

<!ENTITY % ISOdia.module "INCLUDE">
<![ %ISOdia.module;
 [
<!ENTITY % ISOdia PUBLIC
"ISO 8879:1986//ENTITIES Diacritical Marks//EN">
<!--end of ISOdia.module-->]]>

<!ENTITY % ISOgrk1.module "INCLUDE">
<![ %ISOgrk1.module; [
<!ENTITY % ISOgrk1 PUBLIC
"ISO 8879:1986//ENTITIES Greek Letters//EN">
<!--end of ISOgrk1.module-->]]>
```

```
<!ENTITY % ISOgrk2.module "INCLUDE">
<![ %ISOgrk2.module; [
<!ENTITY % ISOgrk2 PUBLIC
"ISO 8879:1986//ENTITIES Monotoniko Greek//EN">
<!--end of ISOgrk2.module-->]]>

<!ENTITY % ISOgrk3.module "INCLUDE">
<![ %ISOgrk3.module; [
<!ENTITY % ISOgrk3 PUBLIC
"ISO 8879:1986//ENTITIES Greek Symbols//EN">
<!--end of ISOgrk3.module-->]]>

<!ENTITY % ISOgrk4.module "INCLUDE">
<![ %ISOgrk4.module; [
<!ENTITY % ISOgrk4 PUBLIC
"ISO 8879:1986//ENTITIES Alternative Greek Symbols//EN">
<!--end of ISOgrk4.module-->]]>

<!ENTITY % ISOlat1.module "INCLUDE">
<![ %ISOlat1.module; [
<!ENTITY % ISOlat1 PUBLIC
"ISO 8879:1986//ENTITIES Added Latin 1//EN">
<!--end of ISOlat1.module-->]]>

<!ENTITY % ISOlat2.module "INCLUDE">
<![ %ISOlat2.module;
 [
<!ENTITY % ISOlat2 PUBLIC
"ISO 8879:1986//ENTITIES Added Latin 2//EN">
<!--end of ISOlat2.module-->]]>

<!ENTITY % ISOnum.module "INCLUDE">
<![ %ISOnum.module; [
<!ENTITY % ISOnum PUBLIC
"ISO 8879:1986//ENTITIES Numeric and Special Graphic//EN">
<!--end of ISOnum.module-->]]>

<!ENTITY % ISOpub.module "INCLUDE">
<![ %ISOpub.module; [
<!ENTITY % ISOpub PUBLIC
"ISO 8879:1986//ENTITIES Publishing//EN">
<!--end of ISOpub.module-->]]>

<!ENTITY % ISOtech.module "INCLUDE">
<![ %ISOtech.module; [
<!ENTITY % ISOtech PUBLIC
"ISO 8879:1986//ENTITIES General Technical//EN">
```

```
<!--end of ISOtech.module-->]]>

<!--end of sgml.features-->]]>

<![%xml.features;[

<!ENTITY % ISOamsa.module "INCLUDE">
<![%ISOamsa.module;[
<!ENTITY % ISOamsa PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Arrow Relations//EN//XML"
"ent/iso-amsa.ent">
<!--end of ISOamsa.module-->]]>

<!ENTITY % ISOamsb.module "INCLUDE">
<![%ISOamsb.module;[
<!ENTITY % ISOamsb PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Binary
 Operators//EN//XML"
"ent/iso-amsb.ent">
<!--end of ISOamsb.module-->]]>

<!ENTITY % ISOamsc.module "INCLUDE">
<![%ISOamsc.module;[
<!ENTITY % ISOamsc PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Delimiters//EN//XML"
"ent/iso-amsc.ent">
<!--end of ISOamsc.module-->]]>

<!ENTITY % ISOamsn.module "INCLUDE">
<![%ISOamsn.module;[
<!ENTITY % ISOamsn PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Negated Relations//EN//XML"
"ent/iso-amsn.ent">
<!--end of ISOamsn.module-->]]>

<!ENTITY % ISOamso.module "INCLUDE">
<![%ISOamso.module;[
<!ENTITY % ISOamso PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Ordinary//EN//XML"
"ent/iso-amso.ent">
<!--end of ISOamso.module-->]]>

<!ENTITY % ISOamsr.module "INCLUDE">
<![%ISOamsr.module;[
<!ENTITY % ISOamsr PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Relations//EN//XML"
"ent/iso-amsr.ent">
<!--end of ISOamsr.module-->]]>
```

```
<!ENTITY % ISObox.module "INCLUDE">
<![%ISObox.module;[
<!ENTITY % ISObox PUBLIC
"ISO 8879:1986//ENTITIES
 Box and Line Drawing//EN//XML"
"ent/iso-box.ent">
<!--end of ISObox.module-->]]>

<!ENTITY % ISOcyr1.module "INCLUDE">
<![%ISOcyr1.module;[
<!ENTITY % ISOcyr1 PUBLIC
"ISO 8879:1986//ENTITIES Russian Cyrillic//EN//XML"
"ent/iso-cyr1.ent">
<!--end of ISOcyr1.module-->]]>

<!ENTITY % ISOcyr2.module "INCLUDE">
<![%ISOcyr2.module;[
<!ENTITY % ISOcyr2 PUBLIC
"ISO 8879:1986//ENTITIES Non-Russian Cyrillic//EN//XML"
"ent/iso-cyr2.ent">
<!--end of ISOcyr2.module-->]]>

<!ENTITY % ISOdia.module "INCLUDE">
<![%ISOdia.module;[
<!ENTITY % ISOdia PUBLIC
"ISO 8879:1986//ENTITIES Diacritical Marks//EN//XML"
"ent/iso-dia.ent">
<!--end of ISOdia.module-->]]>

<!ENTITY % ISOgrk1.module "INCLUDE">
<![%ISOgrk1.module;[
<!ENTITY % ISOgrk1 PUBLIC
"ISO 8879:1986//ENTITIES Greek Letters//EN//XML"
"ent/iso-grk1.ent">
<!--end of ISOgrk1.module-->]]>

<!ENTITY % ISOgrk2.module "INCLUDE">
<![%ISOgrk2.module;[
<!ENTITY % ISOgrk2 PUBLIC
"ISO 8879:1986//ENTITIES Monotoniko Greek//EN//XML"
"ent/iso-grk2.ent">
<!--end
 of ISOgrk2.module-->]]>

<!ENTITY % ISOgrk3.module "INCLUDE">
<![%ISOgrk3.module;[
<!ENTITY % ISOgrk3 PUBLIC
```

"ISO 8879:1986//ENTITIES Greek Symbols//EN//XML"
"ent/iso-grk3.ent">
<!--end of ISOgrk3.module-->]]>

<!ENTITY % ISOgrk4.module "INCLUDE">
<![%ISOgrk4.module;[
<!ENTITY % ISOgrk4 PUBLIC
"ISO 8879:1986//ENTITIES Alternative Greek Symbols//EN//XML"
"ent/iso-grk4.ent">
<!--end of ISOgrk4.module-->]]>

<!ENTITY % ISOlat1.module "INCLUDE">
<![%ISOlat1.module;[
<!ENTITY % ISOlat1 PUBLIC
"ISO 8879:1986//ENTITIES Added Latin 1//EN//XML"
"ent/iso-lat1.ent">
<!--end of ISOlat1.module-->]]>

<!ENTITY % ISOlat2.module "INCLUDE">
<![%ISOlat2.module;[
<!ENTITY % ISOlat2 PUBLIC
"ISO 8879:1986//ENTITIES Added Latin 2//EN//XML"
"ent/iso-lat2.ent">
<!--end of ISOlat2.module-->]]>

<!ENTITY % ISOnum.module "INCLUDE">
<![%ISOnum.module;[
<!ENTITY % ISOnum PUBLIC
"ISO 8879:1986//ENTITIES Numeric and Special Graphic//EN//XML"
"ent/iso-num.ent">
<!--end of ISOnum.module-->]]>

<!ENTITY % ISOpub.module
 "INCLUDE">
<![%ISOpub.module;[
<!ENTITY % ISOpub PUBLIC
"ISO 8879:1986//ENTITIES Publishing//EN//XML"
"ent/iso-pub.ent">
<!--end of ISOpub.module-->]]>

<!ENTITY % ISOtech.module "INCLUDE">
<![%ISOtech.module;[
<!ENTITY % ISOtech PUBLIC
"ISO 8879:1986//ENTITIES General Technical//EN//XML"
"ent/iso-tech.ent">
<!--end of ISOtech.module-->]]>

<!--end of xml.features-->]]>

<![%ISOamsa.module; [
%ISOamsa;
]]>

<![%ISOamsb.module; [
%ISOamsb;
]]>

<![%ISOamsc.module; [
%ISOamsc;
]]>

<![%ISOamsn.module; [
%ISOamsn;
]]>

<![%ISOamso.module; [
%ISOamso;
]]>

<![%ISOamsr.module; [
%ISOamsr;
]]>

<![%ISObox.module; [
%ISObox;
]]>

<![%ISOcyr1.module; [
%ISOcyr1;
]]>

<![%ISOcyr2.module; [
%ISOcyr2;
]]>

<![%ISOdia.module; [
%ISOdia;
]]>

<![%ISOgrk1.module; [
%ISOgrk1;
]]>

<![%ISOgrk2.module; [
%ISOgrk2;
]]>

<![%ISOgrk3.module; [
%ISOgrk3;
]]>

<![%ISOgrk4.module; [
%ISOgrk4;
]]>

<![%ISOlat1.module; [
%ISOlat1;
]]>

<![%ISOlat2.module; [
%ISOlat2;
]]>

<![%ISOnum.module; [
%ISOnum;
]]>

<![
 %ISOpub.module; [
%ISOpub;
]]>

<![%ISOtech.module; [
%ISOtech;
]]>

<!-- End of DocBook character entity sets module V4.2 ..... -->
<!-- ..... -->

Found in path(s):
* /docbook-xml-4-5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-4.2/dbcentx.mod
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DOD//DTD Table Model 951010//EN"

$Id: calstblx.dtd,v 1.10 2000/08/27 15:12:41 nwalsh Exp $

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<!-- ..... -->
<!-- DocBook XML notations module V4.0 ..... -->
<!-- File dbnotnx.mod ..... -->

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information, see http://www.oasis-open.org/docbook/.
-->

<!-- ..... -->

<!-- This module contains the entity declarations for the standard ISO
entity sets used by DocBook.

```
   In DTD driver files referring to this module, please use an entity
   declaration that uses the public identifier shown below:

   <!ENTITY % dbnotn PUBLIC
   "-//OASIS//ENTITIES DocBook XML Notations V4.0//EN"
   "dbnotnx.mod">
   %dbnotn;

   See the documentation
 for detailed information on the parameter
   entity and module scheme used in DocBook, customizing DocBook and
   planning for interchange, and changes made since the last release
   of DocBook.
-->

<!ENTITY % local.notation.class "">
<!ENTITY % notation.class
  "BMP| CGM-CHAR | CGM-BINARY | CGM-CLEAR | DITROFF | DVI
  | EPS | EQN | FAX | GIF | GIF87a | GIF89a
  | JPG | JPEG | IGES | PCX
  | PIC | PNG | PS | SGML | TBL | TEX | TIFF | WMF | WPG
  | linespecific
  %local.notation.class;">

<!NOTATION BMP  PUBLIC
"+//ISBN 0-7923-9432-1::Graphic Notation//NOTATION Microsoft Windows bitmap//EN">
<!NOTATION CGM-CHAR PUBLIC "ISO 8632/2//NOTATION Character encoding//EN">
<!NOTATION CGM-BINARY PUBLIC "ISO 8632/3//NOTATION Binary encoding//EN">
<!NOTATION CGM-CLEAR PUBLIC "ISO 8632/4//NOTATION Clear text encoding//EN">
<!NOTATION DITROFF SYSTEM "DITROFF">
<!NOTATION DVI  SYSTEM "DVI">
<!NOTATION EPS  PUBLIC
"+//ISBN 0-201-18127-4::Adobe//NOTATION PostScript Language Ref. Manual//EN">
<!NOTATION
 EQN  SYSTEM "EQN">
<!NOTATION FAX  PUBLIC
"-//USA-DOD//NOTATION CCITT Group 4 Facsimile Type 1 Untiled Raster//EN">
<!NOTATION GIF  SYSTEM "GIF">
<!NOTATION GIF87a               PUBLIC
"-//CompuServe//NOTATION Graphics Interchange Format 87a//EN">

<!NOTATION GIF89a               PUBLIC
"-//CompuServe//NOTATION Graphics Interchange Format 89a//EN">
<!NOTATION JPG  SYSTEM "JPG">
<!NOTATION JPEG  SYSTEM "JPG">
<!NOTATION IGES  PUBLIC
"-//USA-DOD//NOTATION (ASME/ANSI Y14.26M-1987) Initial Graphics Exchange Specification//EN">
```

<!NOTATION PCX PUBLIC
"+//ISBN 0-7923-9432-1::Graphic Notation//NOTATION ZSoft PCX bitmap//EN">
<!NOTATION PIC SYSTEM "PIC">
<!NOTATION PNG SYSTEM "http://www.w3.org/TR/REC-png">
<!NOTATION PS SYSTEM "PS">
<!NOTATION SGML PUBLIC
"ISO 8879:1986//NOTATION Standard Generalized Markup Language//EN">
<!NOTATION TBL SYSTEM "TBL">
<!NOTATION TEX PUBLIC
"+//ISBN 0-201-13448-9::Knuth//NOTATION The TeXbook//EN">
<!NOTATION TIFF SYSTEM "TIFF">
<!NOTATION
 WMF PUBLIC
"+//ISBN 0-7923-9432-1::Graphic Notation//NOTATION Microsoft Windows Metafile//EN">
<!NOTATION WPG SYSTEM "WPG"> <!--WordPerfect Graphic format-->
<!NOTATION linespecific SYSTEM "linespecific">

<!-- End of DocBook XML notations module V4.0 ..... -->
<!-- ..... -->

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* /docbook-xml-4-5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-4.0/dbnotnx.mod
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   of Structured Information Standards (OASIS).

   $Id: docbookx.dtd,v 1.12 2000/08/27 15:15:26 nwalsh Exp $

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   the maintenance documentation for more information.

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* /docbook-xml-4-5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-4.1.2/docbookx.dtd
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```
<!-- ....................................................................... -->
<!-- DocBook XML document hierarchy module V4.0 ..... -->
<!-- File dbhierx.mod ....................................................... -->

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   $Id: dbhierx.mod,v 1.7 2000/05/18 19:40:49 nwalsh Exp $

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   If you modify the DocBook XML DTD in any way, except for declaring and
   referencing additional sets of general entities and declaring
   additional notations, label your DTD as a variant of DocBook.  See
   the maintenance documentation for more information.

   Please direct all questions, bug reports, or suggestions for
   changes to the docbook@lists.oasis-open.org mailing list. For more
   information, see http://www.oasis-open.org/docbook/.
-->

<!-- ....................................................................... -->

<!-- This module contains the definitions for the overall document
   hierarchies of DocBook documents.  It covers computer documentation
   manuals and manual fragments, as well as reference entries (such as
   man pages) and technical journals or anthologies containing
   articles.

   This module depends on the DocBook information pool module.  All
   elements and entities
 referenced but not defined here are assumed
   to be defined in the information pool module.

   In DTD driver files referring to this module, please use an entity
```

```
   declaration that uses the public identifier shown below:

   <!ENTITY % dbhier PUBLIC
   "-//OASIS//ELEMENTS DocBook XML Document Hierarchy V4.0//EN"
   "dbhierx.mod">
   %dbhier;

   See the documentation for detailed information on the parameter
   entity and module scheme used in DocBook, customizing DocBook and
   planning for interchange, and changes made since the last release
   of DocBook.
-->

<!-- ..................................................................... -->
<!-- Entities for module inclusions ..................................... -->

<!ENTITY % dbhier.redecl.module  "IGNORE">
<!ENTITY % dbhier.redecl2.module "IGNORE">

<!-- ..................................................................... -->
<!-- Entities for element classes .....................................
 -->

<!ENTITY % local.appendix.class "">
<!ENTITY % appendix.class "appendix %local.appendix.class;">

<!ENTITY % local.article.class "">
<!ENTITY % article.class "article %local.article.class;">

<!ENTITY % local.book.class "">
<!ENTITY % book.class  "book %local.book.class;">

<!ENTITY % local.chapter.class "">
<!ENTITY % chapter.class "chapter %local.chapter.class;">

<!ENTITY % local.index.class "">
<!ENTITY % index.class  "index|setindex %local.index.class;">

<!ENTITY % local.refentry.class "">
<!ENTITY % refentry.class "refentry %local.refentry.class;">

<!ENTITY % local.nav.class "">
<!ENTITY % nav.class  "toc|lot|index|glossary|bibliography
   %local.nav.class;">

<!-- Redeclaration placeholder ........................................... -->

<!-- For redeclaring entities that are declared after this point while
```

```
   retaining their references to the entities that are declared before
   this point -->

<![%dbhier.redecl.module;[
<!-- Defining rdbhier here makes some
 buggy XML parsers happy. -->
<!ENTITY % rdbhier "">
%rdbhier;
<!--end of dbhier.redecl.module-->]]>

<!-- ..................................................................... -->
<!-- Entities for element mixtures ..................................... -->

<!-- The DocBook TC may produce an official forms module for DocBook. -->
<!-- This PE provides the hook by which it can be inserted into the DTD. -->
<!ENTITY % forms.hook "">

<!ENTITY % local.divcomponent.mix "">
<!ENTITY % divcomponent.mix
  "%list.class;  |%admon.class;
  |%linespecific.class; |%synop.class;
  |%para.class;  |%informal.class;
  |%formal.class;  |%compound.class;
  |%genobj.class;  |%descobj.class;
  |%ndxterm.class;        |beginpage
              %forms.hook;
  %local.divcomponent.mix;">

<!ENTITY % local.refcomponent.mix "">
<!ENTITY % refcomponent.mix
  "%list.class;  |%admon.class;
  |%linespecific.class; |%synop.class;
  |%para.class;  |%informal.class;
  |%formal.class;  |%compound.class;
  |%genobj.class;  |%descobj.class;
  |%ndxterm.class;
       |beginpage
  %local.refcomponent.mix;">

<!ENTITY % local.indexdivcomponent.mix "">
<!ENTITY % indexdivcomponent.mix
  "itemizedlist|orderedlist|variablelist|simplelist
  |%linespecific.class; |%synop.class;
  |%para.class;  |%informal.class;
  |anchor|remark
  |%link.char.class;
                      |beginpage
  %local.indexdivcomponent.mix;">
```

```
<!ENTITY % local.refname.char.mix "">
<!ENTITY % refname.char.mix
  "#PCDATA
  |%tech.char.class;
  %local.refname.char.mix;">

<!ENTITY % local.partcontent.mix "">
<!ENTITY % partcontent.mix
  "%appendix.class;|%chapter.class;|%nav.class;|%article.class;
  |preface|%refentry.class;|reference %local.partcontent.mix;">

<!ENTITY % local.refinline.char.mix "">
<!ENTITY % refinline.char.mix
  "#PCDATA
  |%xref.char.class; |%gen.char.class;
  |%link.char.class; |%tech.char.class;
  |%base.char.class; |%docinfo.char.class;
  |%other.char.class;
  |%ndxterm.class;       |beginpage
  %local.refinline.char.mix;">

<!ENTITY
 % local.refclass.char.mix "">
<!ENTITY % refclass.char.mix
  "#PCDATA
  |application
  %local.refclass.char.mix;">

<!-- Redeclaration placeholder 2 ..... -->

<!-- For redeclaring entities that are declared after this point while
    retaining their references to the entities that are declared before
    this point -->

<![%dbhier.redecl2.module;[
<!-- Defining rdbhier2 here makes some buggy XML parsers happy. -->
<!ENTITY % rdbhier2 "">
%rdbhier2;
<!--end of dbhier.redecl2.module-->]]>

<!-- ..... -->
<!-- Entities for content models ..... -->

<!ENTITY % div.title.content
 "title, subtitle?, titleabbrev?">

<!ENTITY % bookcomponent.title.content
```

```
 "title, subtitle?, titleabbrev?">

<!ENTITY % sect.title.content
 "title, subtitle?, titleabbrev?">

<!ENTITY % refsect.title.content
 "title, subtitle?, titleabbrev?">

<!ENTITY
 % bookcomponent.content
 "((%divcomponent.mix;)+,
 (sect1*|(%refentry.class;)*|simplesect*|section*))
 | (sect1+|(%refentry.class;)+|simplesect+|section+)">

<!-- ..... -->
<!-- Set and SetInfo ..... -->

<!ENTITY % set.content.module "INCLUDE">
<![%set.content.module;[
<!ENTITY % set.module "INCLUDE">
<![%set.module;[
<!ENTITY % local.set.attrib "">
<!ENTITY % set.role.attrib "%role.attrib;">

<!ENTITY % set.element "INCLUDE">
<![%set.element;[
<!ELEMENT set ((%div.title.content;)?, setinfo?, toc?, (%book.class;)+,
  setindex?)>
<!--end of set.element-->]]>

<!-- FPI: SGML formal public identifier -->


<!ENTITY % set.attlist "INCLUDE">
<![%set.attlist;[
<!ATTLIST set
  fpi  CDATA  #IMPLIED
  %status.attrib;
  %common.attrib;
  %set.role.attrib;
  %local.set.attrib;
>
<!--end of set.attlist-->]]>
<!--end of set.module-->]]>

<!ENTITY % setinfo.module "INCLUDE">
<![%setinfo.module;[
<!ENTITY
```

```
 % local.setinfo.attrib "">
<!ENTITY % setinfo.role.attrib "%role.attrib;">

<!ENTITY % setinfo.element "INCLUDE">
<![%setinfo.element;[
<!ELEMENT setinfo ((graphic | mediaobject
      | legalnotice | modespec | subjectset
 | keywordset | itermset | %bibliocomponent.mix;)+)>
<!--end of setinfo.element-->]]>

<!-- Contents: IDs of the ToC, Books, and SetIndex that comprise
  the set, in the order of their appearance -->


<!ENTITY % setinfo.attlist "INCLUDE">
<![%setinfo.attlist;[
<!ATTLIST setinfo
  contents IDREFS  #IMPLIED
  %common.attrib;
  %setinfo.role.attrib;
  %local.setinfo.attrib;
>
<!--end of setinfo.attlist-->]]>
<!--end of setinfo.module-->]]>
<!--end of set.content.module-->]]>

<!-- ..................................................................... -->
<!-- Book and BookInfo ..................................................... -->

<!ENTITY % book.content.module "INCLUDE">
<![%book.content.module;[
<!ENTITY % book.module "INCLUDE">
<![%book.module;[
<!--FUTURE
 USE (V4.0):
.....................
The %article.class; entity *may* be removed from the Book content model.
(Article may be made part of a new top-level document hierarchy.)
.....................
-->

<!ENTITY % local.book.attrib "">
<!ENTITY % book.role.attrib "%role.attrib;">

<!ENTITY % book.element "INCLUDE">
<![%book.element;[
<!ELEMENT book ((%div.title.content;)?, bookinfo?,
  (dedication | toc | lot
```

```
  | glossary | bibliography | preface
  | %chapter.class; | reference | part
  | %article.class;
  | %appendix.class;
  | %index.class;
  | colophon)*)>
<!--end of book.element-->]]>

<!-- FPI: SGML formal public identifier -->


<!ENTITY % book.attlist "INCLUDE">
<![%book.attlist;[
<!ATTLIST book  fpi  CDATA  #IMPLIED
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %book.role.attrib;
  %local.book.attrib;
>
<!--end of book.attlist-->]]>
<!--end of book.module-->]]>

<!ENTITY % bookinfo.module "INCLUDE">
<![%bookinfo.module;[
<!ENTITY % local.bookinfo.attrib
 "">
<!ENTITY % bookinfo.role.attrib "%role.attrib;">

<!ENTITY % bookinfo.element "INCLUDE">
<![%bookinfo.element;[
<!ELEMENT bookinfo ((graphic | mediaobject
      | legalnotice | modespec | subjectset
 | keywordset | itermset | %bibliocomponent.mix;)+)>
<!--end of bookinfo.element-->]]>

<!-- Contents: IDs of the ToC, LoTs, Prefaces, Parts, Chapters,
  Appendixes, References, GLossary, Bibliography, and indexes
  comprising the Book, in the order of their appearance -->


<!ENTITY % bookinfo.attlist "INCLUDE">
<![%bookinfo.attlist;[
<!ATTLIST bookinfo
  contents IDREFS  #IMPLIED
  %common.attrib;
  %bookinfo.role.attrib;
  %local.bookinfo.attrib;
```

```
>
<!--end of bookinfo.attlist-->]]>
<!--end of bookinfo.module-->]]>
<!--end of book.content.module-->]]>

<!-- ..... -->
<!-- Dedication, ToC, and LoT ..... -->

<!ENTITY % dedication.module "INCLUDE">
<![%dedication.module;[
<!ENTITY
 % local.dedication.attrib "">
<!ENTITY % dedication.role.attrib "%role.attrib;">

<!ENTITY % dedication.element "INCLUDE">
<![%dedication.element;[
<!ELEMENT dedication ((%sect.title.content;)?, (%legalnotice.mix;)+)>
<!--end of dedication.element-->]]>

<!ENTITY % dedication.attlist "INCLUDE">
<![%dedication.attlist;[
<!ATTLIST dedication
  %status.attrib;
  %common.attrib;
  %dedication.role.attrib;
  %local.dedication.attrib;
>
<!--end of dedication.attlist-->]]>
<!--end of dedication.module-->]]>

<!ENTITY % colophon.module "INCLUDE">
<![ %colophon.module; [
<!ENTITY % local.colophon.attrib "">
<!ENTITY % colophon.role.attrib "%role.attrib;">

<!ENTITY % colophon.element "INCLUDE">
<![ %colophon.element; [
<!ELEMENT colophon ((%sect.title.content;)?, (%textobject.mix;)+)>
<!--end of colophon.element-->]]>

<!ENTITY % colophon.attlist "INCLUDE">
<![ %colophon.attlist; [
<!ATTLIST colophon
  %status.attrib;
  %common.attrib;
  %colophon.role.attrib;
  %local.colophon.attrib;>
<!--end
```

```
 of colophon.attlist-->]]>
<!--end of colophon.module-->]]>

<!ENTITY % toc.content.module "INCLUDE">
<![%toc.content.module;[
<!ENTITY % toc.module "INCLUDE">
<![%toc.module;[
<!ENTITY % local.toc.attrib "">
<!ENTITY % toc.role.attrib "%role.attrib;">

<!ENTITY % toc.element "INCLUDE">
<![%toc.element;[
<!ELEMENT toc ((%bookcomponent.title.content;)?, tocfront*,
  (tocpart | tocchap)*, tocback*)>
<!--end of toc.element-->]]>

<!ENTITY % toc.attlist "INCLUDE">
<![%toc.attlist;[
<!ATTLIST toc
  %pagenum.attrib;
  %common.attrib;
  %toc.role.attrib;
  %local.toc.attrib;
>
<!--end of toc.attlist-->]]>
<!--end of toc.module-->]]>

<!ENTITY % tocfront.module "INCLUDE">
<![%tocfront.module;[
<!ENTITY % local.tocfront.attrib "">
<!ENTITY % tocfront.role.attrib "%role.attrib;">

<!ENTITY % tocfront.element "INCLUDE">
<![%tocfront.element;[
<!ELEMENT tocfront (%para.char.mix;)*>
<!--end of tocfront.element-->]]>

<!-- to element that this entry represents -->


<!ENTITY % tocfront.attlist
 "INCLUDE">
<![%tocfront.attlist;[
<!ATTLIST tocfront
  %label.attrib;
  %linkend.attrib;  %pagenum.attrib;
  %common.attrib;
  %tocfront.role.attrib;
```

```
  %local.tocfront.attrib;
>
<!--end of tocfront.attlist-->]]>
<!--end of tocfront.module-->]]>

<!ENTITY % tocentry.module "INCLUDE">
<![%tocentry.module;[
<!ENTITY % local.tocentry.attrib "">
<!ENTITY % tocentry.role.attrib "%role.attrib;">

<!ENTITY % tocentry.element "INCLUDE">
<![%tocentry.element;[
<!ELEMENT tocentry (%para.char.mix;)*>
<!--end of tocentry.element-->]]>

<!-- to element that this entry represents -->


<!ENTITY % tocentry.attlist "INCLUDE">
<![%tocentry.attlist;[
<!ATTLIST tocentry
  %linkend.attrib;  %pagenum.attrib;
  %common.attrib;
  %tocentry.role.attrib;
  %local.tocentry.attrib;
>
<!--end of tocentry.attlist-->]]>
<!--end of tocentry.module-->]]>

<!ENTITY % tocpart.module "INCLUDE">
<![%tocpart.module;[
<!ENTITY % local.tocpart.attrib "">
<!ENTITY % tocpart.role.attrib "%role.attrib;">

<!ENTITY %
 tocpart.element "INCLUDE">
<![%tocpart.element;[
<!ELEMENT tocpart (tocentry+, tocchap*)>
<!--end of tocpart.element-->]]>

<!ENTITY % tocpart.attlist "INCLUDE">
<![%tocpart.attlist;[
<!ATTLIST tocpart
  %common.attrib;
  %tocpart.role.attrib;
  %local.tocpart.attrib;
>
<!--end of tocpart.attlist-->]]>
```

```
<!--end of tocpart.module-->]]>

<!ENTITY % tocchap.module "INCLUDE">
<![%tocchap.module;[
<!ENTITY % local.tocchap.attrib "">
<!ENTITY % tocchap.role.attrib "%role.attrib;">

<!ENTITY % tocchap.element "INCLUDE">
<![%tocchap.element;[
<!ELEMENT tocchap (tocentry+, toclevel1*)>
<!--end of tocchap.element-->]]>

<!ENTITY % tocchap.attlist "INCLUDE">
<![%tocchap.attlist;[
<!ATTLIST tocchap
  %label.attrib;
  %common.attrib;
  %tocchap.role.attrib;
  %local.tocchap.attrib;
>
<!--end of tocchap.attlist-->]]>
<!--end of tocchap.module-->]]>

<!ENTITY % toclevel1.module "INCLUDE">
<![%toclevel1.module;[
<!ENTITY % local.toclevel1.attrib "">
<!ENTITY % toclevel1.role.attrib "%role.attrib;">

<!ENTITY
 % toclevel1.element "INCLUDE">
<![%toclevel1.element;[
<!ELEMENT toclevel1 (tocentry+, toclevel2*)>
<!--end of toclevel1.element-->]]>

<!ENTITY % toclevel1.attlist "INCLUDE">
<![%toclevel1.attlist;[
<!ATTLIST toclevel1
  %common.attrib;
  %toclevel1.role.attrib;
  %local.toclevel1.attrib;
>
<!--end of toclevel1.attlist-->]]>
<!--end of toclevel1.module-->]]>

<!ENTITY % toclevel2.module "INCLUDE">
<![%toclevel2.module;[
<!ENTITY % local.toclevel2.attrib "">
<!ENTITY % toclevel2.role.attrib "%role.attrib;">
```

```
<!ENTITY % toclevel2.element "INCLUDE">
<![%toclevel2.element;[
<!ELEMENT toclevel2 (tocentry+, toclevel3*)>
<!--end of toclevel2.element-->]]>

<!ENTITY % toclevel2.attlist "INCLUDE">
<![%toclevel2.attlist;[
<!ATTLIST toclevel2
  %common.attrib;
  %toclevel2.role.attrib;
  %local.toclevel2.attrib;
>
<!--end of toclevel2.attlist-->]]>
<!--end of toclevel2.module-->]]>

<!ENTITY % toclevel3.module "INCLUDE">
<![%toclevel3.module;[
<!ENTITY % local.toclevel3.attrib "">
<!ENTITY
 % toclevel3.role.attrib "%role.attrib;">

<!ENTITY % toclevel3.element "INCLUDE">
<![%toclevel3.element;[
<!ELEMENT toclevel3 (tocentry+, toclevel4*)>
<!--end of toclevel3.element-->]]>

<!ENTITY % toclevel3.attlist "INCLUDE">
<![%toclevel3.attlist;[
<!ATTLIST toclevel3
  %common.attrib;
  %toclevel3.role.attrib;
  %local.toclevel3.attrib;
>
<!--end of toclevel3.attlist-->]]>
<!--end of toclevel3.module-->]]>

<!ENTITY % toclevel4.module "INCLUDE">
<![%toclevel4.module;[
<!ENTITY % local.toclevel4.attrib "">
<!ENTITY % toclevel4.role.attrib "%role.attrib;">

<!ENTITY % toclevel4.element "INCLUDE">
<![%toclevel4.element;[
<!ELEMENT toclevel4 (tocentry+, toclevel5*)>
<!--end of toclevel4.element-->]]>

<!ENTITY % toclevel4.attlist "INCLUDE">
```

```
<![%toclevel4.attlist;[
<!ATTLIST toclevel4
  %common.attrib;
  %toclevel4.role.attrib;
  %local.toclevel4.attrib;
>
<!--end of toclevel4.attlist-->]]>
<!--end of toclevel4.module-->]]>

<!ENTITY % toclevel5.module "INCLUDE">
<![%toclevel5.module;[
<!ENTITY
 % local.toclevel5.attrib "">
<!ENTITY % toclevel5.role.attrib "%role.attrib;">

<!ENTITY % toclevel5.element "INCLUDE">
<![%toclevel5.element;[
<!ELEMENT toclevel5 (tocentry+)>
<!--end of toclevel5.element-->]]>

<!ENTITY % toclevel5.attlist "INCLUDE">
<![%toclevel5.attlist;[
<!ATTLIST toclevel5
  %common.attrib;
  %toclevel5.role.attrib;
  %local.toclevel5.attrib;
>
<!--end of toclevel5.attlist-->]]>
<!--end of toclevel5.module-->]]>

<!ENTITY % tocback.module "INCLUDE">
<![%tocback.module;[
<!ENTITY % local.tocback.attrib "">
<!ENTITY % tocback.role.attrib "%role.attrib;">

<!ENTITY % tocback.element "INCLUDE">
<![%tocback.element;[
<!ELEMENT tocback (%para.char.mix;)*>
<!--end of tocback.element-->]]>

<!-- to element that this entry represents -->


<!ENTITY % tocback.attlist "INCLUDE">
<![%tocback.attlist;[
<!ATTLIST tocback
  %label.attrib;
  %linkend.attrib;  %pagenum.attrib;
```

```
  %common.attrib;
  %tocback.role.attrib;
  %local.tocback.attrib;
>
<!--end of tocback.attlist-->]]>
<!--end
 of tocback.module-->]]>
<!--end of toc.content.module-->]]>

<!ENTITY % lot.content.module "INCLUDE">
<![%lot.content.module;[
<!ENTITY % lot.module "INCLUDE">
<![%lot.module;[
<!ENTITY % local.lot.attrib "">
<!ENTITY % lot.role.attrib "%role.attrib;">

<!ENTITY % lot.element "INCLUDE">
<![%lot.element;[
<!ELEMENT lot ((%bookcomponent.title.content;)?, lotentry*)>
<!--end of lot.element-->]]>

<!ENTITY % lot.attlist "INCLUDE">
<![%lot.attlist;[
<!ATTLIST lot
  %label.attrib;
  %common.attrib;
  %lot.role.attrib;
  %local.lot.attrib;
>
<!--end of lot.attlist-->]]>
<!--end of lot.module-->]]>

<!ENTITY % lotentry.module "INCLUDE">
<![%lotentry.module;[
<!ENTITY % local.lotentry.attrib "">
<!ENTITY % lotentry.role.attrib "%role.attrib;">

<!ENTITY % lotentry.element "INCLUDE">
<![%lotentry.element;[
<!ELEMENT lotentry (%para.char.mix;)*>
<!--end of lotentry.element-->]]>

<!-- SrcCredit: Information about the source of the entry,
  as for a list of illustrations -->
<!--
 linkend: to element that this entry represents-->
<!ENTITY % lotentry.attlist "INCLUDE">
<![%lotentry.attlist;[
```

```
<!ATTLIST lotentry
  srccredit CDATA  #IMPLIED
  %pagenum.attrib;
  %common.attrib;
  %linkend.attrib;
  %lotentry.role.attrib;
  %local.lotentry.attrib;
>
<!--end of lotentry.attlist-->]]>
<!--end of lotentry.module-->]]>
<!--end of lot.content.module-->]]>

<!-- ..................................................................... -->
<!-- Appendix, Chapter, Part, Preface, Reference, PartIntro ..... -->

<!ENTITY % appendix.module "INCLUDE">
<![%appendix.module;[
<!ENTITY % local.appendix.attrib "">
<!ENTITY % appendix.role.attrib "%role.attrib;">

<!ENTITY % appendix.element "INCLUDE">
<![%appendix.element;[
<!ELEMENT appendix (appendixinfo?,
                    (%bookcomponent.title.content;),
                    (%nav.class;)*,
                    tocchap?,
                    (%bookcomponent.content;),
                    (%nav.class;)*)>
<!--end of appendix.element-->]]>

<!ENTITY
 % appendix.attlist "INCLUDE">
<![%appendix.attlist;[
<!ATTLIST appendix
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %appendix.role.attrib;
  %local.appendix.attrib;
>
<!--end of appendix.attlist-->]]>
<!--end of appendix.module-->]]>

<!ENTITY % chapter.module "INCLUDE">
<![%chapter.module;[
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">
```

```
<!ENTITY % chapter.element "INCLUDE">
<![%chapter.element;[
<!ELEMENT chapter (chapterinfo?,
                (%bookcomponent.title.content;),
                (%nav.class;)*,
                tocchap?,
                (%bookcomponent.content;),
                (%nav.class;)*)>
<!--end of chapter.element-->]]>

<!ENTITY % chapter.attlist "INCLUDE">
<![%chapter.attlist;[
<!ATTLIST chapter
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %chapter.role.attrib;
  %local.chapter.attrib;
>
<!--end of chapter.attlist-->]]>
<!--end of chapter.module-->]]>

<!ENTITY
 % part.module "INCLUDE">
<![%part.module;[

<!-- Note that Part was to have its content model reduced in V4.0.  This
change will not be made after all. -->

<!ENTITY % local.part.attrib "">
<!ENTITY % part.role.attrib "%role.attrib;">

<!ENTITY % part.element "INCLUDE">
<![%part.element;[
<!ELEMENT part (partinfo?, (%bookcomponent.title.content;), partintro?,
  (%partcontent.mix;)+)>
<!--end of part.element-->]]>

<!ENTITY % part.attlist "INCLUDE">
<![%part.attlist;[
<!ATTLIST part
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %part.role.attrib;
  %local.part.attrib;
>
<!--end of part.attlist-->]]>
```

```
<!--ELEMENT PartIntro (defined below)-->
<!--end of part.module-->]]>

<!ENTITY % preface.module "INCLUDE">
<![%preface.module;[
<!ENTITY % local.preface.attrib "">
<!ENTITY % preface.role.attrib "%role.attrib;">

<!ENTITY % preface.element "INCLUDE">
<![%preface.element;[
<!ELEMENT preface (prefaceinfo?,
                   (%bookcomponent.title.content;),

  (%nav.class;)*,
                   tocchap?,
                   (%bookcomponent.content;),
                   (%nav.class;)*)>
<!--end of preface.element-->]]>

<!ENTITY % preface.attlist "INCLUDE">
<![%preface.attlist;[
<!ATTLIST preface
  %status.attrib;
  %common.attrib;
  %preface.role.attrib;
  %local.preface.attrib;
>
<!--end of preface.attlist-->]]>
<!--end of preface.module-->]]>

<!ENTITY % reference.module "INCLUDE">
<![%reference.module;[
<!ENTITY % local.reference.attrib "">
<!ENTITY % reference.role.attrib "%role.attrib;">

<!ENTITY % reference.element "INCLUDE">
<![%reference.element;[
<!ELEMENT reference (referenceinfo?,
                    (%bookcomponent.title.content;), partintro?,
                    (%refentry.class;)+)>
<!--end of reference.element-->]]>

<!ENTITY % reference.attlist "INCLUDE">
<![%reference.attlist;[
<!ATTLIST reference
  %label.attrib;
  %status.attrib;
  %common.attrib;
```

```
 %reference.role.attrib;
 %local.reference.attrib;
>
<!--end of reference.attlist--]]>
<!--ELEMENT
 PartIntro (defined below)-->
<!--end of reference.module--]]>

<!ENTITY % partintro.module "INCLUDE">
<![%partintro.module;[
<!ENTITY % local.partintro.attrib "">
<!ENTITY % partintro.role.attrib "%role.attrib;">

<!ENTITY % partintro.element "INCLUDE">
<![%partintro.element;[
<!ELEMENT partintro ((%div.title.content;)?, (%bookcomponent.content;))>
<!--end of partintro.element--]]>

<!ENTITY % partintro.attlist "INCLUDE">
<![%partintro.attlist;[
<!ATTLIST partintro
 %label.attrib;
 %common.attrib;
 %local.partintro.attrib;
 %partintro.role.attrib;
>
<!--end of partintro.attlist--]]>
<!--end of partintro.module--]]>

<!-- ..... -->
<!-- Other Info elements ..... -->

<!ENTITY % appendixinfo.module "INCLUDE">
<![ %appendixinfo.module; [
<!ENTITY % local.appendixinfo.attrib "">
<!ENTITY % appendixinfo.role.attrib "%role.attrib;">

<!ENTITY
 % appendixinfo.element "INCLUDE">
<![ %appendixinfo.element; [
<!ELEMENT appendixinfo ((graphic | mediaobject
 | legalnotice | modespec
 | subjectset | keywordset | itermset
          | %bibliocomponent.mix;)+)>
<!--end of appendixinfo.element--]]>

<!ENTITY % appendixinfo.attlist "INCLUDE">
<![ %appendixinfo.attlist; [
```

```
<!ATTLIST appendixinfo
  %common.attrib;
  %appendixinfo.role.attrib;
  %local.appendixinfo.attrib;
>
<!--end of appendixinfo.attlist--]]>
<!--end of appendixinfo.module--]]>

<!ENTITY % bibliographyinfo.module "INCLUDE">
<![ %bibliographyinfo.module; [
<!ENTITY % local.bibliographyinfo.attrib "">
<!ENTITY % bibliographyinfo.role.attrib "%role.attrib;">

<!ENTITY % bibliographyinfo.element "INCLUDE">
<![ %bibliographyinfo.element; [
<!ELEMENT bibliographyinfo ((graphic | mediaobject
  | legalnotice | modespec
  | subjectset | keywordset | itermset
            | %bibliocomponent.mix;)+)>
<!--end of bibliographyinfo.element--]]>

<!ENTITY % bibliographyinfo.attlist
 "INCLUDE">
<![ %bibliographyinfo.attlist; [
<!ATTLIST bibliographyinfo
  %common.attrib;
  %bibliographyinfo.role.attrib;
  %local.bibliographyinfo.attrib;
>
<!--end of bibliographyinfo.attlist--]]>
<!--end of bibliographyinfo.module--]]>

<!ENTITY % chapterinfo.module "INCLUDE">
<![ %chapterinfo.module; [
<!ENTITY % local.chapterinfo.attrib "">
<!ENTITY % chapterinfo.role.attrib "%role.attrib;">

<!ENTITY % chapterinfo.element "INCLUDE">
<![ %chapterinfo.element; [
<!ELEMENT chapterinfo ((graphic | mediaobject
  | legalnotice | modespec
  | subjectset | keywordset | itermset
            | %bibliocomponent.mix;)+)>
<!--end of chapterinfo.element--]]>

<!ENTITY % chapterinfo.attlist "INCLUDE">
<![ %chapterinfo.attlist; [
<!ATTLIST chapterinfo
```

```
 %common.attrib;
 %chapterinfo.role.attrib;
 %local.chapterinfo.attrib;
>
<!--end of chapterinfo.attlist-->]]>
<!--end of chapterinfo.module-->]]>

<!ENTITY % glossaryinfo.module "INCLUDE">
<![ %glossaryinfo.module; [
<!ENTITY
 % local.glossaryinfo.attrib "">
<!ENTITY % glossaryinfo.role.attrib "%role.attrib;">

<!ENTITY % glossaryinfo.element "INCLUDE">
<![ %glossaryinfo.element; [
<!ELEMENT glossaryinfo ((graphic | mediaobject
 | legalnotice | modespec
 | subjectset | keywordset | itermset
            | %bibliocomponent.mix;)+)>
<!--end of glossaryinfo.element-->]]>

<!ENTITY % glossaryinfo.attlist "INCLUDE">
<![ %glossaryinfo.attlist; [
<!ATTLIST glossaryinfo
 %common.attrib;
 %glossaryinfo.role.attrib;
 %local.glossaryinfo.attrib;
>
<!--end of glossaryinfo.attlist-->]]>
<!--end of glossaryinfo.module-->]]>

<!ENTITY % indexinfo.module "INCLUDE">
<![ %indexinfo.module; [
<!ENTITY % local.indexinfo.attrib "">
<!ENTITY % indexinfo.role.attrib "%role.attrib;">

<!ENTITY % indexinfo.element "INCLUDE">
<![ %indexinfo.element; [
<!ELEMENT indexinfo ((graphic | mediaobject
 | legalnotice | modespec
 | subjectset | keywordset | itermset
            | %bibliocomponent.mix;)+)>
<!--end of indexinfo.element-->]]>

<!ENTITY
 % indexinfo.attlist "INCLUDE">
<![ %indexinfo.attlist; [
<!ATTLIST indexinfo
```

```
 %common.attrib;
 %indexinfo.role.attrib;
 %local.indexinfo.attrib;
>
<!--end of indexinfo.attlist-->]]>
<!--end of indexinfo.module-->]]>

<!ENTITY % setindexinfo.module "INCLUDE">
<![ %setindexinfo.module; [
<!ENTITY % local.setindexinfo.attrib "">
<!ENTITY % setindexinfo.role.attrib "%role.attrib;">

<!ENTITY % setindexinfo.element "INCLUDE">
<![ %setindexinfo.element; [
<!ELEMENT setindexinfo ((graphic | mediaobject
 | legalnotice | modespec
 | subjectset | keywordset | itermset
          | %bibliocomponent.mix;)+)>
<!--end of setindexinfo.element-->]]>

<!ENTITY % setindexinfo.attlist "INCLUDE">
<![ %setindexinfo.attlist; [
<!ATTLIST setindexinfo
 %common.attrib;
 %setindexinfo.role.attrib;
 %local.setindexinfo.attrib;
>
<!--end of setindexinfo.attlist-->]]>
<!--end of setindexinfo.module-->]]>

<!ENTITY % partinfo.module "INCLUDE">
<![ %partinfo.module; [
<!ENTITY
 % local.partinfo.attrib "">
<!ENTITY % partinfo.role.attrib "%role.attrib;">

<!ENTITY % partinfo.element "INCLUDE">
<![ %partinfo.element; [
<!ELEMENT partinfo ((graphic | mediaobject
 | legalnotice | modespec
 | subjectset | keywordset | itermset
          | %bibliocomponent.mix;)+)>
<!--end of partinfo.element-->]]>

<!ENTITY % partinfo.attlist "INCLUDE">
<![ %partinfo.attlist; [
<!ATTLIST partinfo
 %common.attrib;
```

```
 %partinfo.role.attrib;
 %local.partinfo.attrib;
>
<!--end of partinfo.attlist-->]]>
<!--end of partinfo.module-->]]>

<!ENTITY % prefaceinfo.module "INCLUDE">
<![ %prefaceinfo.module; [
<!ENTITY % local.prefaceinfo.attrib "">
<!ENTITY % prefaceinfo.role.attrib "%role.attrib;">

<!ENTITY % prefaceinfo.element "INCLUDE">
<![ %prefaceinfo.element; [
<!ELEMENT prefaceinfo ((graphic | mediaobject
 | legalnotice | modespec
 | subjectset | keywordset | itermset
          | %bibliocomponent.mix;)+)>
<!--end of prefaceinfo.element-->]]>

<!ENTITY % prefaceinfo.attlist
 "INCLUDE">
<![ %prefaceinfo.attlist; [
<!ATTLIST prefaceinfo
 %common.attrib;
 %prefaceinfo.role.attrib;
 %local.prefaceinfo.attrib;
>
<!--end of prefaceinfo.attlist-->]]>
<!--end of prefaceinfo.module-->]]>

<!ENTITY % refentryinfo.module "INCLUDE">
<![ %refentryinfo.module; [
<!ENTITY % local.refentryinfo.attrib "">
<!ENTITY % refentryinfo.role.attrib "%role.attrib;">

<!ENTITY % refentryinfo.element "INCLUDE">
<![ %refentryinfo.element; [
<!ELEMENT refentryinfo ((graphic | mediaobject
 | legalnotice | modespec
 | subjectset | keywordset | itermset
          | %bibliocomponent.mix;)+)>
<!--end of refentryinfo.element-->]]>

<!ENTITY % refentryinfo.attlist "INCLUDE">
<![ %refentryinfo.attlist; [
<!ATTLIST refentryinfo
 %common.attrib;
 %refentryinfo.role.attrib;
```

```
 %local.refentryinfo.attrib;
>
<!--end of refentryinfo.attlist-->]]>
<!--end of refentryinfo.module-->]]>

<!ENTITY % refsect1info.module "INCLUDE">
<![ %refsect1info.module; [
<!ENTITY % local.refsect1info.attrib
 "">
<!ENTITY % refsect1info.role.attrib "%role.attrib;">

<!ENTITY % refsect1info.element "INCLUDE">
<![ %refsect1info.element; [
<!ELEMENT refsect1info ((graphic | mediaobject
 | legalnotice | modespec
 | subjectset | keywordset | itermset
          | %bibliocomponent.mix;)+)>
<!--end of refsect1info.element-->]]>

<!ENTITY % refsect1info.attlist "INCLUDE">
<![ %refsect1info.attlist; [
<!ATTLIST refsect1info
 %common.attrib;
 %refsect1info.role.attrib;
 %local.refsect1info.attrib;
>
<!--end of refsect1info.attlist-->]]>
<!--end of refsect1info.module-->]]>

<!ENTITY % refsect2info.module "INCLUDE">
<![ %refsect2info.module; [
<!ENTITY % local.refsect2info.attrib "">
<!ENTITY % refsect2info.role.attrib "%role.attrib;">

<!ENTITY % refsect2info.element "INCLUDE">
<![ %refsect2info.element; [
<!ELEMENT refsect2info ((graphic | mediaobject
 | legalnotice | modespec
 | subjectset | keywordset | itermset
          | %bibliocomponent.mix;)+)>
<!--end
 of refsect2info.element-->]]>

<!ENTITY % refsect2info.attlist "INCLUDE">
<![ %refsect2info.attlist; [
<!ATTLIST refsect2info
 %common.attrib;
 %refsect2info.role.attrib;
```

```
  %local.refsect2info.attrib;
>
<!--end of refsect2info.attlist-->]]>
<!--end of refsect2info.module-->]]>

<!ENTITY % refsect3info.module "INCLUDE">
<![ %refsect3info.module; [
<!ENTITY % local.refsect3info.attrib "">
<!ENTITY % refsect3info.role.attrib "%role.attrib;">

<!ENTITY % refsect3info.element "INCLUDE">
<![ %refsect3info.element; [
<!ELEMENT refsect3info ((graphic | mediaobject
  | legalnotice | modespec
  | subjectset | keywordset | itermset
              | %bibliocomponent.mix;)+)>
<!--end of refsect3info.element-->]]>

<!ENTITY % refsect3info.attlist "INCLUDE">
<![ %refsect3info.attlist; [
<!ATTLIST refsect3info
  %common.attrib;
  %refsect3info.role.attrib;
  %local.refsect3info.attrib;
>
<!--end of refsect3info.attlist-->]]>
<!--end of refsect3info.module-->]]>

<!ENTITY % refsynopsisdivinfo.module
 "INCLUDE">
<![ %refsynopsisdivinfo.module; [
<!ENTITY % local.refsynopsisdivinfo.attrib "">
<!ENTITY % refsynopsisdivinfo.role.attrib "%role.attrib;">

<!ENTITY % refsynopsisdivinfo.element "INCLUDE">
<![ %refsynopsisdivinfo.element; [
<!ELEMENT refsynopsisdivinfo ((graphic | mediaobject
  | legalnotice | modespec
  | subjectset | keywordset | itermset
              | %bibliocomponent.mix;)+)>
<!--end of refsynopsisdivinfo.element-->]]>

<!ENTITY % refsynopsisdivinfo.attlist "INCLUDE">
<![ %refsynopsisdivinfo.attlist; [
<!ATTLIST refsynopsisdivinfo
  %common.attrib;
  %refsynopsisdivinfo.role.attrib;
  %local.refsynopsisdivinfo.attrib;
```

```
>
<!--end of refsynopsisdivinfo.attlist-->]]>
<!--end of refsynopsisdivinfo.module-->]]>

<!ENTITY % referenceinfo.module "INCLUDE">
<![ %referenceinfo.module; [
<!ENTITY % local.referenceinfo.attrib "">
<!ENTITY % referenceinfo.role.attrib "%role.attrib;">

<!ENTITY % referenceinfo.element "INCLUDE">
<![ %referenceinfo.element; [
<!ELEMENT referenceinfo
 ((graphic | mediaobject
  | legalnotice | modespec
  | subjectset | keywordset | itermset
            | %bibliocomponent.mix;)+)>
<!--end of referenceinfo.element-->]]>

<!ENTITY % referenceinfo.attlist "INCLUDE">
<![ %referenceinfo.attlist; [
<!ATTLIST referenceinfo
  %common.attrib;
  %referenceinfo.role.attrib;
  %local.referenceinfo.attrib;
>
<!--end of referenceinfo.attlist-->]]>
<!--end of referenceinfo.module-->]]>

<!ENTITY % local.sect1info.attrib "">
<!ENTITY % sect1info.role.attrib "%role.attrib;">

<!ENTITY % sect1info.element "INCLUDE">
<![%sect1info.element;[
<!ELEMENT sect1info ((graphic | mediaobject | legalnotice | modespec
 | subjectset | keywordset | itermset | %bibliocomponent.mix;)+)>
<!--end of sect1info.element-->]]>

<!ENTITY % sect1info.attlist "INCLUDE">
<![%sect1info.attlist;[
<!ATTLIST sect1info
  %common.attrib;
  %sect1info.role.attrib;
  %local.sect1info.attrib;
>
<!--end of sect1info.attlist-->]]>

<!ENTITY % local.sect2info.attrib "">
<!ENTITY
```

```
 % sect2info.role.attrib "%role.attrib;">

<!ENTITY % sect2info.element "INCLUDE">
<![%sect2info.element;[
<!ELEMENT sect2info ((graphic | mediaobject | legalnotice | modespec
 | subjectset | keywordset | itermset | %bibliocomponent.mix;)+)>
<!--end of sect2info.element-->]]>

<!ENTITY % sect2info.attlist "INCLUDE">
<![%sect2info.attlist;[
<!ATTLIST sect2info
  %common.attrib;
  %sect2info.role.attrib;
  %local.sect2info.attrib;
>
<!--end of sect2info.attlist-->]]>

<!ENTITY % local.sect3info.attrib "">
<!ENTITY % sect3info.role.attrib "%role.attrib;">

<!ENTITY % sect3info.element "INCLUDE">
<![%sect3info.element;[
<!ELEMENT sect3info ((graphic | mediaobject | legalnotice | modespec
 | subjectset | keywordset | itermset | %bibliocomponent.mix;)+)>
<!--end of sect3info.element-->]]>

<!ENTITY % sect3info.attlist "INCLUDE">
<![%sect3info.attlist;[
<!ATTLIST sect3info
  %common.attrib;
  %sect3info.role.attrib;
  %local.sect3info.attrib;
>
<!--end of sect3info.attlist-->]]>

<!ENTITY
 % local.sect4info.attrib "">
<!ENTITY % sect4info.role.attrib "%role.attrib;">

<!ENTITY % sect4info.element "INCLUDE">
<![%sect4info.element;[
<!ELEMENT sect4info ((graphic | mediaobject | legalnotice | modespec
 | subjectset | keywordset | itermset | %bibliocomponent.mix;)+)>
<!--end of sect4info.element-->]]>

<!ENTITY % sect4info.attlist "INCLUDE">
<![%sect4info.attlist;[
<!ATTLIST sect4info
```

```
  %common.attrib;
  %sect4info.role.attrib;
  %local.sect4info.attrib;
>
<!--end of sect4info.attlist-->]]>

<!ENTITY % local.sect5info.attrib "">
<!ENTITY % sect5info.role.attrib "%role.attrib;">

<!ENTITY % sect5info.element "INCLUDE">
<![%sect5info.element;[
<!ELEMENT sect5info ((graphic | mediaobject | legalnotice | modespec
 | subjectset | keywordset | itermset | %bibliocomponent.mix;)+)>
<!--end of sect5info.element-->]]>

<!ENTITY % sect5info.attlist "INCLUDE">
<![%sect5info.attlist;[
<!ATTLIST sect5info
  %common.attrib;
  %sect5info.role.attrib;
  %local.sect5info.attrib;
>
<!--end
 of sect5info.attlist-->]]>

<!-- ..... -->
<!-- Section (parallel to Sect*) ..... -->

<!ENTITY % section.content.module "INCLUDE">
<![ %section.content.module; [
<!ENTITY % section.module "INCLUDE">
<![ %section.module; [
<!ENTITY % local.section.attrib "">
<!ENTITY % section.role.attrib "%role.attrib;">

<!ENTITY % section.element "INCLUDE">
<![ %section.element; [
<!ELEMENT section (sectioninfo?,
   (%sect.title.content;),
   (%nav.class;)*,
   (((%divcomponent.mix;)+,
     ((%refentry.class;)*|section*))
    | (%refentry.class;)+|section+),
   (%nav.class;)*)>
<!--end of section.element-->]]>

<!ENTITY % section.attlist "INCLUDE">
<![ %section.attlist; [
```

```
<!ATTLIST section
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %section.role.attrib;
  %local.section.attrib;
>
<!--end of section.attlist-->]]>
<!--end of section.module-->]]>

<!ENTITY % sectioninfo.module "INCLUDE">
<![
 %sectioninfo.module; [
<!ENTITY % sectioninfo.role.attrib "%role.attrib;">
<!ENTITY % local.sectioninfo.attrib "">

<!ENTITY % sectioninfo.element "INCLUDE">
<![ %sectioninfo.element; [
<!ELEMENT sectioninfo ((graphic | mediaobject | legalnotice | modespec
 | subjectset | keywordset | itermset | %bibliocomponent.mix;)+)>
<!--end of sectioninfo.element-->]]>

<!ENTITY % sectioninfo.attlist "INCLUDE">
<![ %sectioninfo.attlist; [
<!ATTLIST sectioninfo
  %common.attrib;
  %sectioninfo.role.attrib;
  %local.sectioninfo.attrib;
>
<!--end of sectioninfo.attlist-->]]>
<!--end of sectioninfo.module-->]]>
<!--end of section.content.module-->]]>

<!-- ..... -->
<!-- Sect1, Sect2, Sect3, Sect4, Sect5 ..... -->

<!ENTITY % sect1.module "INCLUDE">
<![%sect1.module;[
<!ENTITY % local.sect1.attrib "">
<!ENTITY % sect1.role.attrib "%role.attrib;">

<!ENTITY % sect1.element "INCLUDE">
<![%sect1.element;[
<!ELEMENT
 sect1 (sect1info?, (%sect.title.content;), (%nav.class;)*,
  (((%divcomponent.mix;)+,
  ((%refentry.class;)* | sect2* | simplesect*))
  | (%refentry.class;)+ | sect2+ | simplesect+), (%nav.class;)*)>
```

```
<!--end of sect1.element-->]]>

<!-- Renderas: Indicates the format in which the heading should
  appear -->


<!ENTITY % sect1.attlist "INCLUDE">
<![%sect1.attlist;[
<!ATTLIST sect1
  renderas (sect2
    |sect3
    |sect4
    |sect5)  #IMPLIED
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %sect1.role.attrib;
  %local.sect1.attrib;
>
<!--end of sect1.attlist-->]]>
<!--end of sect1.module-->]]>

<!ENTITY % sect2.module "INCLUDE">
<![%sect2.module;[
<!ENTITY % local.sect2.attrib "">
<!ENTITY % sect2.role.attrib "%role.attrib;">

<!ENTITY % sect2.element "INCLUDE">
<![%sect2.element;[
<!ELEMENT sect2 (sect2info?, (%sect.title.content;), (%nav.class;)*,
  (((%divcomponent.mix;)+,
  ((%refentry.class;)* | sect3* | simplesect*))
  | (%refentry.class;)+ | sect3+ | simplesect+),
 (%nav.class;)*)>
<!--end of sect2.element-->]]>

<!-- Renderas: Indicates the format in which the heading should
  appear -->


<!ENTITY % sect2.attlist "INCLUDE">
<![%sect2.attlist;[
<!ATTLIST sect2
  renderas (sect1
    |sect3
    |sect4
    |sect5)  #IMPLIED
  %label.attrib;
```

```
 %status.attrib;
 %common.attrib;
 %sect2.role.attrib;
 %local.sect2.attrib;
>
<!--end of sect2.attlist-->]]>
<!--end of sect2.module-->]]>

<!ENTITY % sect3.module "INCLUDE">
<![%sect3.module;[
<!ENTITY % local.sect3.attrib "">
<!ENTITY % sect3.role.attrib "%role.attrib;">

<!ENTITY % sect3.element "INCLUDE">
<![%sect3.element;[
<!ELEMENT sect3 (sect3info?, (%sect.title.content;), (%nav.class;)*,
 (((%divcomponent.mix;)+,
 ((%refentry.class;)* | sect4* | simplesect*))
 | (%refentry.class;)+ | sect4+ | simplesect+), (%nav.class;)*)>
<!--end of sect3.element-->]]>

<!-- Renderas: Indicates the format in which the heading should
 appear -->


<!ENTITY % sect3.attlist "INCLUDE">
<![%sect3.attlist;[
<!ATTLIST
 sect3
 renderas (sect1
   |sect2
   |sect4
   |sect5)  #IMPLIED
 %label.attrib;
 %status.attrib;
 %common.attrib;
 %sect3.role.attrib;
 %local.sect3.attrib;
>
<!--end of sect3.attlist-->]]>
<!--end of sect3.module-->]]>

<!ENTITY % sect4.module "INCLUDE">
<![%sect4.module;[
<!ENTITY % local.sect4.attrib "">
<!ENTITY % sect4.role.attrib "%role.attrib;">

<!ENTITY % sect4.element "INCLUDE">
```

```
<![%sect4.element;[
<!ELEMENT sect4 (sect4info?, (%sect.title.content;), (%nav.class;)*,
  (((%divcomponent.mix;)+,
  ((%refentry.class;)* | sect5* | simplesect*))
  | (%refentry.class;)+ | sect5+ | simplesect+), (%nav.class;)*)>
<!--end of sect4.element-->]]>

<!-- Renderas: Indicates the format in which the heading should
  appear -->


<!ENTITY % sect4.attlist "INCLUDE">
<![%sect4.attlist;[
<!ATTLIST sect4
  renderas (sect1
    |sect2
    |sect3
    |sect5)  #IMPLIED
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %sect4.role.attrib;
  %local.sect4.attrib;
>
<!--end of
 sect4.attlist-->]]>
<!--end of sect4.module-->]]>

<!ENTITY % sect5.module "INCLUDE">
<![%sect5.module;[
<!ENTITY % local.sect5.attrib "">
<!ENTITY % sect5.role.attrib "%role.attrib;">

<!ENTITY % sect5.element "INCLUDE">
<![%sect5.element;[
<!ELEMENT sect5 (sect5info?, (%sect.title.content;), (%nav.class;)*,
  (((%divcomponent.mix;)+, ((%refentry.class;)* | simplesect*))
  | (%refentry.class;)+ | simplesect+), (%nav.class;)*)>
<!--end of sect5.element-->]]>

<!-- Renderas: Indicates the format in which the heading should
  appear -->


<!ENTITY % sect5.attlist "INCLUDE">
<![%sect5.attlist;[
<!ATTLIST sect5
  renderas (sect1
```

```
    |sect2
    |sect3
    |sect4)  #IMPLIED
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %sect5.role.attrib;
  %local.sect5.attrib;
>
<!--end of sect5.attlist-->]]>
<!--end of sect5.module-->]]>

<!ENTITY % simplesect.module "INCLUDE">
<![%simplesect.module;[
<!ENTITY % local.simplesect.attrib "">
<!ENTITY % simplesect.role.attrib "%role.attrib;">

<!ENTITY
 % simplesect.element "INCLUDE">
<![%simplesect.element;[
<!ELEMENT simplesect ((%sect.title.content;), (%divcomponent.mix;)+)>
<!--end of simplesect.element-->]]>

<!ENTITY % simplesect.attlist "INCLUDE">
<![%simplesect.attlist;[
<!ATTLIST simplesect
  %common.attrib;
  %simplesect.role.attrib;
  %local.simplesect.attrib;
>
<!--end of simplesect.attlist-->]]>
<!--end of simplesect.module-->]]>

<!-- ..... -->
<!-- Bibliography ..... -->

<!ENTITY % bibliography.content.module "INCLUDE">
<![%bibliography.content.module;[
<!ENTITY % bibliography.module "INCLUDE">
<![%bibliography.module;[
<!ENTITY % local.bibliography.attrib "">
<!ENTITY % bibliography.role.attrib "%role.attrib;">

<!ENTITY % bibliography.element "INCLUDE">
<![%bibliography.element;[
<!ELEMENT bibliography (bibliographyinfo?,
                  (%bookcomponent.title.content;)?,
```

```
    (%component.mix;)*,
                (bibliodiv+ | (biblioentry|bibliomixed)+))>
<!--end of bibliography.element-->]]>

<!ENTITY % bibliography.attlist "INCLUDE">
<![%bibliography.attlist;[
<!ATTLIST bibliography
  %status.attrib;
  %common.attrib;
  %bibliography.role.attrib;
  %local.bibliography.attrib;
>
<!--end of bibliography.attlist-->]]>
<!--end of bibliography.module-->]]>

<!ENTITY % bibliodiv.module "INCLUDE">
<![%bibliodiv.module;[
<!ENTITY % local.bibliodiv.attrib "">
<!ENTITY % bibliodiv.role.attrib "%role.attrib;">

<!ENTITY % bibliodiv.element "INCLUDE">
<![%bibliodiv.element;[
<!ELEMENT bibliodiv ((%sect.title.content;)?, (%component.mix;)*,
  (biblioentry|bibliomixed)+)>
<!--end of bibliodiv.element-->]]>

<!ENTITY % bibliodiv.attlist "INCLUDE">
<![%bibliodiv.attlist;[
<!ATTLIST bibliodiv
  %status.attrib;
  %common.attrib;
  %bibliodiv.role.attrib;
  %local.bibliodiv.attrib;
>
<!--end of bibliodiv.attlist-->]]>
<!--end of bibliodiv.module-->]]>
<!--end of
 bibliography.content.module-->]]>

<!-- ..... -->
<!-- Glossary ..... -->

<!ENTITY % glossary.content.module "INCLUDE">
<![%glossary.content.module;[
<!ENTITY % glossary.module "INCLUDE">
<![%glossary.module;[
<!ENTITY % local.glossary.attrib "">
<!ENTITY % glossary.role.attrib "%role.attrib;">
```

```
<!ENTITY % glossary.element "INCLUDE">
<![%glossary.element;[
<!ELEMENT glossary (glossaryinfo?,
                (%bookcomponent.title.content;)?,
                (%component.mix;)*,
                (glossdiv+ | glossentry+), bibliography?)>
<!--end of glossary.element-->]]>

<!ENTITY % glossary.attlist "INCLUDE">
<![%glossary.attlist;[
<!ATTLIST glossary
  %status.attrib;
  %common.attrib;
  %glossary.role.attrib;
  %local.glossary.attrib;
>
<!--end of glossary.attlist-->]]>
<!--end of glossary.module-->]]>

<!ENTITY % glossdiv.module "INCLUDE">
<![%glossdiv.module;[
<!ENTITY
 % local.glossdiv.attrib "">
<!ENTITY % glossdiv.role.attrib "%role.attrib;">

<!ENTITY % glossdiv.element "INCLUDE">
<![%glossdiv.element;[
<!ELEMENT glossdiv ((%sect.title.content;), (%component.mix;)*,
  glossentry+)>
<!--end of glossdiv.element-->]]>

<!ENTITY % glossdiv.attlist "INCLUDE">
<![%glossdiv.attlist;[
<!ATTLIST glossdiv
  %status.attrib;
  %common.attrib;
  %glossdiv.role.attrib;
  %local.glossdiv.attrib;
>
<!--end of glossdiv.attlist-->]]>
<!--end of glossdiv.module-->]]>
<!--end of glossary.content.module-->]]>

<!-- ..................................................................... -->
<!-- Index and SetIndex ................................................... -->

<!ENTITY % index.content.module "INCLUDE">
```

```
<![%index.content.module;[
<!ENTITY % indexes.module "INCLUDE">
<![%indexes.module;[
<!ENTITY % local.indexes.attrib "">
<!ENTITY % indexes.role.attrib "%role.attrib;">

<!ENTITY % index.element "INCLUDE">
<![%index.element;[
<!ELEMENT index (indexinfo?,
                 (%bookcomponent.title.content;)?,
                (%component.mix;)*,
                (indexdiv* | indexentry*))>
<!--end of index.element-->]]>

<!ENTITY % index.attlist "INCLUDE">
<![%index.attlist;[
<!ATTLIST index
  %common.attrib;
  %indexes.role.attrib;
  %local.indexes.attrib;
>
<!--end of index.attlist-->]]>

<!ENTITY % setindex.element "INCLUDE">
<![%setindex.element;[
<!ELEMENT setindex (setindexinfo?,
                   (%bookcomponent.title.content;)?,
                   (%component.mix;)*, (indexdiv* | indexentry*))>
<!--end of setindex.element-->]]>

<!ENTITY % setindex.attlist "INCLUDE">
<![%setindex.attlist;[
<!ATTLIST setindex
  %common.attrib;
  %indexes.role.attrib;
  %local.indexes.attrib;
>
<!--end of setindex.attlist-->]]>
<!--end of indexes.module-->]]>

<!ENTITY % indexdiv.module "INCLUDE">
<![%indexdiv.module;[

<!-- SegmentedList in this content is useful for marking up permuted
    indices. -->

<!ENTITY % local.indexdiv.attrib
```

```
 "">
<!ENTITY % indexdiv.role.attrib "%role.attrib;">

<!ENTITY % indexdiv.element "INCLUDE">
<![%indexdiv.element;[
<!ELEMENT indexdiv ((%sect.title.content;)?, ((%indexdivcomponent.mix;)*,
  (indexentry+ | segmentedlist)))>
<!--end of indexdiv.element-->]]>

<!ENTITY % indexdiv.attlist "INCLUDE">
<![%indexdiv.attlist;[
<!ATTLIST indexdiv
  %common.attrib;
  %indexdiv.role.attrib;
  %local.indexdiv.attrib;
>
<!--end of indexdiv.attlist-->]]>
<!--end of indexdiv.module-->]]>

<!ENTITY % indexentry.module "INCLUDE">
<![%indexentry.module;[
<!-- Index entries appear in the index, not the text. -->

<!ENTITY % local.indexentry.attrib "">
<!ENTITY % indexentry.role.attrib "%role.attrib;">

<!ENTITY % indexentry.element "INCLUDE">
<![%indexentry.element;[
<!ELEMENT indexentry (primaryie, (seeie|seealsoie)*,
  (secondaryie, (seeie|seealsoie|tertiaryie)*)*)>
<!--end of indexentry.element-->]]>

<!ENTITY % indexentry.attlist "INCLUDE">
<![%indexentry.attlist;[
<!ATTLIST indexentry
  %common.attrib;
  %indexentry.role.attrib;
  %local.indexentry.attrib;
>
<!--end
 of indexentry.attlist-->]]>
<!--end of indexentry.module-->]]>

<!ENTITY % primsecterie.module "INCLUDE">
<![%primsecterie.module;[
<!ENTITY % local.primsecterie.attrib "">
<!ENTITY % primsecterie.role.attrib "%role.attrib;">
```

```
<!ENTITY % primaryie.element "INCLUDE">
<![%primaryie.element;[
<!ELEMENT primaryie (%ndxterm.char.mix;)*>
<!--end of primaryie.element-->]]>

<!-- to IndexTerms that these entries represent -->

<!ENTITY % primaryie.attlist "INCLUDE">
<![%primaryie.attlist;[
<!ATTLIST primaryie
  %linkends.attrib;  %common.attrib;
  %primsecterie.role.attrib;
  %local.primsecterie.attrib;
>
<!--end of primaryie.attlist-->]]>

<!ENTITY % secondaryie.element "INCLUDE">
<![%secondaryie.element;[
<!ELEMENT secondaryie (%ndxterm.char.mix;)*>
<!--end of secondaryie.element-->]]>

<!-- to IndexTerms that these entries represent -->

<!ENTITY % secondaryie.attlist "INCLUDE">
<![%secondaryie.attlist;[
<!ATTLIST secondaryie
  %linkends.attrib;  %common.attrib;
  %primsecterie.role.attrib;
  %local.primsecterie.attrib;
>
<!--end
 of secondaryie.attlist-->]]>

<!ENTITY % tertiaryie.element "INCLUDE">
<![%tertiaryie.element;[
<!ELEMENT tertiaryie (%ndxterm.char.mix;)*>
<!--end of tertiaryie.element-->]]>

<!-- to IndexTerms that these entries represent -->

<!ENTITY % tertiaryie.attlist "INCLUDE">
<![%tertiaryie.attlist;[
<!ATTLIST tertiaryie
  %linkends.attrib;  %common.attrib;
  %primsecterie.role.attrib;
  %local.primsecterie.attrib;
>
<!--end of tertiaryie.attlist-->]]>
```

```
<!--end of primsecterie.module-->]]>

<!ENTITY % seeie.module "INCLUDE">
<![%seeie.module;[
<!ENTITY % local.seeie.attrib "">
<!ENTITY % seeie.role.attrib "%role.attrib;">

<!ENTITY % seeie.element "INCLUDE">
<![%seeie.element;[
<!ELEMENT seeie (%ndxterm.char.mix;)*>
<!--end of seeie.element-->]]>

<!-- to IndexEntry to look up -->


<!ENTITY % seeie.attlist "INCLUDE">
<![%seeie.attlist;[
<!ATTLIST seeie
  %linkend.attrib;  %common.attrib;
  %seeie.role.attrib;
  %local.seeie.attrib;
>
<!--end
 of seeie.attlist-->]]>
<!--end of seeie.module-->]]>

<!ENTITY % seealsoie.module "INCLUDE">
<![%seealsoie.module;[
<!ENTITY % local.seealsoie.attrib "">
<!ENTITY % seealsoie.role.attrib "%role.attrib;">

<!ENTITY % seealsoie.element "INCLUDE">
<![%seealsoie.element;[
<!ELEMENT seealsoie (%ndxterm.char.mix;)*>
<!--end of seealsoie.element-->]]>

<!-- to related IndexEntries -->


<!ENTITY % seealsoie.attlist "INCLUDE">
<![%seealsoie.attlist;[
<!ATTLIST seealsoie
  %linkends.attrib;  %common.attrib;
  %seealsoie.role.attrib;
  %local.seealsoie.attrib;
>
<!--end of seealsoie.attlist-->]]>
```

```
<!--end of seealsoie.module-->]]>
<!--end of index.content.module-->]]>

<!-- ..... -->
<!-- RefEntry ..... -->

<!ENTITY % refentry.content.module "INCLUDE">
<![%refentry.content.module;[
<!ENTITY % refentry.module "INCLUDE">
<![%refentry.module;[
<!ENTITY
 % local.refentry.attrib "">
<!ENTITY % refentry.role.attrib "%role.attrib;">

<!ENTITY % refentry.element "INCLUDE">
<![%refentry.element;[
<!ELEMENT refentry ((%ndxterm.class;)*,
                refentryinfo?, refmeta?, (remark|%link.char.class;)*,
                refnamediv, refsynopsisdiv?, refsect1+)>
<!--end of refentry.element-->]]>

<!ENTITY % refentry.attlist "INCLUDE">
<![%refentry.attlist;[
<!ATTLIST refentry
  %status.attrib;
  %common.attrib;
  %refentry.role.attrib;
  %local.refentry.attrib;
>
<!--end of refentry.attlist-->]]>
<!--end of refentry.module-->]]>

<!ENTITY % refmeta.module "INCLUDE">
<![%refmeta.module;[
<!ENTITY % local.refmeta.attrib "">
<!ENTITY % refmeta.role.attrib "%role.attrib;">

<!ENTITY % refmeta.element "INCLUDE">
<![%refmeta.element;[
<!ELEMENT refmeta ((%ndxterm.class;)*,
                refentrytitle, manvolnum?, refmiscinfo*,
                (%ndxterm.class;)*)>
<!--end of refmeta.element-->]]>

<!ENTITY
 % refmeta.attlist "INCLUDE">
<![%refmeta.attlist;[
<!ATTLIST refmeta
```

```
 %common.attrib;
 %refmeta.role.attrib;
 %local.refmeta.attrib;
>
<!--end of refmeta.attlist-->]]>
<!--end of refmeta.module-->]]>

<!ENTITY % refmiscinfo.module "INCLUDE">
<![%refmiscinfo.module;[
<!ENTITY % local.refmiscinfo.attrib "">
<!ENTITY % refmiscinfo.role.attrib "%role.attrib;">

<!ENTITY % refmiscinfo.element "INCLUDE">
<![%refmiscinfo.element;[
<!ELEMENT refmiscinfo (%docinfo.char.mix;)*>
<!--end of refmiscinfo.element-->]]>

<!-- Class: Freely assignable parameter; no default -->


<!ENTITY % refmiscinfo.attlist "INCLUDE">
<![%refmiscinfo.attlist;[
<!ATTLIST refmiscinfo
 class  CDATA  #IMPLIED
 %common.attrib;
 %refmiscinfo.role.attrib;
 %local.refmiscinfo.attrib;
>
<!--end of refmiscinfo.attlist-->]]>
<!--end of refmiscinfo.module-->]]>

<!ENTITY % refnamediv.module "INCLUDE">
<![%refnamediv.module;[
<!ENTITY % local.refnamediv.attrib "">
<!ENTITY % refnamediv.role.attrib "%role.attrib;">

<!ENTITY
 % refnamediv.element "INCLUDE">
<![%refnamediv.element;[
<!ELEMENT refnamediv (refdescriptor?, refname+, refpurpose, refclass*,
 (remark|%link.char.class;)*)>
<!--end of refnamediv.element-->]]>

<!ENTITY % refnamediv.attlist "INCLUDE">
<![%refnamediv.attlist;[
<!ATTLIST refnamediv
 %common.attrib;
 %refnamediv.role.attrib;
```

```
  %local.refnamediv.attrib;
>
<!--end of refnamediv.attlist-->]]>
<!--end of refnamediv.module-->]]>

<!ENTITY % refdescriptor.module "INCLUDE">
<![%refdescriptor.module;[
<!ENTITY % local.refdescriptor.attrib "">
<!ENTITY % refdescriptor.role.attrib "%role.attrib;">

<!ENTITY % refdescriptor.element "INCLUDE">
<![%refdescriptor.element;[
<!ELEMENT refdescriptor (%refname.char.mix;)*>
<!--end of refdescriptor.element-->]]>

<!ENTITY % refdescriptor.attlist "INCLUDE">
<![%refdescriptor.attlist;[
<!ATTLIST refdescriptor
  %common.attrib;
  %refdescriptor.role.attrib;
  %local.refdescriptor.attrib;
>
<!--end of refdescriptor.attlist-->]]>
<!--end of refdescriptor.module-->]]>

<!ENTITY
 % refname.module "INCLUDE">
<![%refname.module;[
<!ENTITY % local.refname.attrib "">
<!ENTITY % refname.role.attrib "%role.attrib;">

<!ENTITY % refname.element "INCLUDE">
<![%refname.element;[
<!ELEMENT refname (%refname.char.mix;)*>
<!--end of refname.element-->]]>

<!ENTITY % refname.attlist "INCLUDE">
<![%refname.attlist;[
<!ATTLIST refname
  %common.attrib;
  %refname.role.attrib;
  %local.refname.attrib;
>
<!--end of refname.attlist-->]]>
<!--end of refname.module-->]]>

<!ENTITY % refpurpose.module "INCLUDE">
<![%refpurpose.module;[
```

```
<!ENTITY % local.refpurpose.attrib "">
<!ENTITY % refpurpose.role.attrib "%role.attrib;">

<!ENTITY % refpurpose.element "INCLUDE">
<![%refpurpose.element;[
<!ELEMENT refpurpose (%refinline.char.mix;)*>
<!--end of refpurpose.element-->]]>

<!ENTITY % refpurpose.attlist "INCLUDE">
<![%refpurpose.attlist;[
<!ATTLIST refpurpose
  %common.attrib;
  %refpurpose.role.attrib;
  %local.refpurpose.attrib;
>
<!--end of refpurpose.attlist-->]]>
<!--end
 of refpurpose.module-->]]>

<!ENTITY % refclass.module "INCLUDE">
<![%refclass.module;[
<!ENTITY % local.refclass.attrib "">
<!ENTITY % refclass.role.attrib "%role.attrib;">

<!ENTITY % refclass.element "INCLUDE">
<![%refclass.element;[
<!ELEMENT refclass (%refclass.char.mix;)*>
<!--end of refclass.element-->]]>

<!ENTITY % refclass.attlist "INCLUDE">
<![%refclass.attlist;[
<!ATTLIST refclass
  %common.attrib;
  %refclass.role.attrib;
  %local.refclass.attrib;
>
<!--end of refclass.attlist-->]]>
<!--end of refclass.module-->]]>

<!ENTITY % refsynopsisdiv.module "INCLUDE">
<![%refsynopsisdiv.module;[
<!ENTITY % local.refsynopsisdiv.attrib "">
<!ENTITY % refsynopsisdiv.role.attrib "%role.attrib;">

<!ENTITY % refsynopsisdiv.element "INCLUDE">
<![%refsynopsisdiv.element;[
<!ELEMENT refsynopsisdiv (refsynopsisdivinfo?, (%refsect.title.content;)?,
  (((%refcomponent.mix;)+, refsect2*) | (refsect2+)))>
```

```
<!--end of refsynopsisdiv.element-->]]>

<!ENTITY % refsynopsisdiv.attlist
 "INCLUDE">
<![%refsynopsisdiv.attlist;[
<!ATTLIST refsynopsisdiv
  %common.attrib;
  %refsynopsisdiv.role.attrib;
  %local.refsynopsisdiv.attrib;
>
<!--end of refsynopsisdiv.attlist-->]]>
<!--end of refsynopsisdiv.module-->]]>

<!ENTITY % refsect1.module "INCLUDE">
<![%refsect1.module;[
<!ENTITY % local.refsect1.attrib "">
<!ENTITY % refsect1.role.attrib "%role.attrib;">

<!ENTITY % refsect1.element "INCLUDE">
<![%refsect1.element;[
<!ELEMENT refsect1 (refsect1info?, (%refsect.title.content;),
  (((%refcomponent.mix;)+, refsect2*) | refsect2+))>
<!--end of refsect1.element-->]]>

<!ENTITY % refsect1.attlist "INCLUDE">
<![%refsect1.attlist;[
<!ATTLIST refsect1
  %status.attrib;
  %common.attrib;
  %refsect1.role.attrib;
  %local.refsect1.attrib;
>
<!--end of refsect1.attlist-->]]>
<!--end of refsect1.module-->]]>

<!ENTITY % refsect2.module "INCLUDE">
<![%refsect2.module;[
<!ENTITY % local.refsect2.attrib "">
<!ENTITY % refsect2.role.attrib "%role.attrib;">

<!ENTITY % refsect2.element
 "INCLUDE">
<![%refsect2.element;[
<!ELEMENT refsect2 (refsect2info?, (%refsect.title.content;),
 (((%refcomponent.mix;)+, refsect3*) | refsect3+))>
<!--end of refsect2.element-->]]>

<!ENTITY % refsect2.attlist "INCLUDE">
```

```
<![%refsect2.attlist;[
<!ATTLIST refsect2
  %status.attrib;
  %common.attrib;
  %refsect2.role.attrib;
  %local.refsect2.attrib;
>
<!--end of refsect2.attlist-->]]>
<!--end of refsect2.module-->]]>

<!ENTITY % refsect3.module "INCLUDE">
<![%refsect3.module;[
<!ENTITY % local.refsect3.attrib "">
<!ENTITY % refsect3.role.attrib "%role.attrib;">

<!ENTITY % refsect3.element "INCLUDE">
<![%refsect3.element;[
<!ELEMENT refsect3 (refsect3info?, (%refsect.title.content;),
 (%refcomponent.mix;)+)>
<!--end of refsect3.element-->]]>

<!ENTITY % refsect3.attlist "INCLUDE">
<![%refsect3.attlist;[
<!ATTLIST refsect3
  %status.attrib;
  %common.attrib;
  %refsect3.role.attrib;
  %local.refsect3.attrib;
>
<!--end of refsect3.attlist-->]]>
<!--end of refsect3.module-->]]>
<!--end
 of refentry.content.module-->]]>

<!-- ..... -->
<!-- Article ..... -->

<!ENTITY % article.module "INCLUDE">
<![%article.module;[
<!-- An Article is a chapter-level, stand-alone document that is often,
    but need not be, collected into a Book. -->
<!--FUTURE USE (V4.0):
.....
The %nav.class; entity now allows ToC; ToCchap will be allowed instead.
RefEntry will be removed from the main content of Article.
.....
-->
```

```
<!ENTITY % local.article.attrib "">
<!ENTITY % article.role.attrib "%role.attrib;">

<!ENTITY % article.element "INCLUDE">
<![%article.element;[
<!ELEMENT article ((%div.title.content;)?, articleinfo?, tocchap?, lot*,
  (%bookcomponent.content;),
  ((%nav.class;) | (%appendix.class;) | ackno)*)>
<!--end of article.element-->]]>

<!-- Class: Indicates the type of a particular article;
 all articles have the
same structure and general purpose.
 No default. -->
<!-- ParentBook: ID of the enclosing Book -->


<!ENTITY % article.attlist "INCLUDE">
<![%article.attlist;[
<!ATTLIST article
 class  (journalarticle
   |productsheet
   |whitepaper
   |techreport
                        |specification
   |faq)  #IMPLIED
 parentbook IDREF  #IMPLIED
 %status.attrib;
 %common.attrib;
 %article.role.attrib;
 %local.article.attrib;
>
<!--end of article.attlist-->]]>
<!--end of article.module-->]]>

<!-- End of DocBook XML document hierarchy module V4.0 ..... -->
<!-- ..... -->

Found in path(s):
* /docbook-xml-4-5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-4.0/dbhierx.mod
No license file was found, but licenses were detected in source scan.

<!-- ..... -->
<!-- DocBook document hierarchy module V4.5 ..... -->
<!-- File dbhierx.mod ..... -->

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```

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Organization for the Advancement of Structured Information
Standards (OASIS).

$Id: dbhierx.mod 6340 2006-10-03 13:23:24Z nwalsh $

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warranty.

If you modify the DocBook DTD in any way, except for declaring and
referencing additional sets of general entities and declaring
additional notations, label your DTD as a variant of DocBook. See
the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for
changes to the docbook@lists.oasis-open.org mailing list. For more
information, see http://www.oasis-open.org/docbook/.
-->

<!-- ..... -->

<!-- This module contains the definitions for the overall document
hierarchies of DocBook documents. It covers computer documentation
manuals and manual fragments, as well as reference entries (such as
man pages) and technical journals or anthologies containing
articles.

This module depends on the DocBook information pool module. All

elements and entities referenced but not defined here are assumed
to be defined in the information pool module.

In DTD driver files referring to this module, please use an entity
declaration that uses the public identifier shown below:

<!ENTITY % dbhier PUBLIC
"-//OASIS//ELEMENTS DocBook Document Hierarchy V4.5//EN"
"dbhierx.mod">
%dbhier;

See the documentation for detailed information on the parameter
entity and module scheme used in DocBook, customizing DocBook and

```
   planning for interchange, and changes made since the last release
   of DocBook.
-->

<!-- ..................................................................... -->
<!-- Entities for module inclusions ...................................... -->

<!ENTITY % dbhier.redecl.module  "IGNORE">
<!ENTITY % dbhier.redecl2.module "IGNORE">

<!-- ..................................................................... -->
<!-- Entities for element classes .....................................
 -->

<!ENTITY % local.appendix.class "">
<!ENTITY % appendix.class "appendix %local.appendix.class;">

<!ENTITY % local.article.class "">
<!ENTITY % article.class "article %local.article.class;">

<!ENTITY % local.book.class "">
<!ENTITY % book.class  "book %local.book.class;">

<!ENTITY % local.chapter.class "">
<!ENTITY % chapter.class "chapter %local.chapter.class;">

<!ENTITY % local.index.class "">
<!ENTITY % index.class  "index|setindex %local.index.class;">

<!ENTITY % local.refentry.class "">
<!ENTITY % refentry.class "refentry %local.refentry.class;">

<!ENTITY % local.section.class "">
<!ENTITY % section.class "section %local.section.class;">

<!ENTITY % local.nav.class "">
<!ENTITY % nav.class  "toc|lot|index|glossary|bibliography
   %local.nav.class;">

<!-- Redeclaration placeholder ........................................... -->

<!-- For redeclaring entities that are declared after this point while
   retaining their references to the entities that
 are declared before
   this point -->

<![%dbhier.redecl.module;[
<!-- Defining rdbhier here makes some buggy XML parsers happy. -->
```

```
<!ENTITY % rdbhier "">
%rdbhier;
<!--end of dbhier.redecl.module-->]]>

<!-- ..... -->
<!-- Entities for element mixtures ..... -->

<!ENTITY % local.divcomponent.mix "">
<!ENTITY % divcomponent.mix
  "%list.class;  |%admon.class;
  |%linespecific.class; |%synop.class;
  |%para.class;  |%informal.class;
  |%formal.class;  |%compound.class;
  |%genobj.class;  |%descobj.class;
  |%ndxterm.class;       |beginpage
              %forms.hook;
  %local.divcomponent.mix;">

<!ENTITY % local.refcomponent.mix "">
<!ENTITY % refcomponent.mix
  "%list.class;  |%admon.class;
  |%linespecific.class; |%synop.class;
  |%para.class;  |%informal.class;
  |%formal.class;  |%compound.class;
  |%genobj.class;  |%descobj.class;
  |%ndxterm.class;       |beginpage
  %forms.hook;
              %local.refcomponent.mix;">

<!ENTITY % local.indexdivcomponent.mix "">
<!ENTITY % indexdivcomponent.mix
  "itemizedlist|orderedlist|variablelist|simplelist
  |%linespecific.class; |%synop.class;
  |%para.class;  |%informal.class;
  |anchor|remark
  |%link.char.class;
                      |beginpage
  %local.indexdivcomponent.mix;">

<!ENTITY % local.refname.char.mix "">
<!ENTITY % refname.char.mix
  "#PCDATA
  |%tech.char.class;
  %local.refname.char.mix;">

<!ENTITY % local.partcontent.mix "">
<!ENTITY % partcontent.mix
  "%appendix.class;|%chapter.class;|%nav.class;|%article.class;
```

```
 |preface|%refentry.class;|reference %local.partcontent.mix;">

<!ENTITY % local.refinline.char.mix "">
<!ENTITY % refinline.char.mix
 "#PCDATA
 |%xref.char.class; |%gen.char.class;
 |%link.char.class; |%tech.char.class;
 |%base.char.class; |%docinfo.char.class;
 |%other.char.class;
 |%ndxterm.class;       |beginpage
 %local.refinline.char.mix;">

<!ENTITY % local.refclass.char.mix
 "">
<!ENTITY % refclass.char.mix
 "#PCDATA
 |application
 %local.refclass.char.mix;">

<!-- Redeclaration placeholder 2 ..... -->

<!-- For redeclaring entities that are declared after this point while
   retaining their references to the entities that are declared before
   this point -->

<![%dbhier.redecl2.module;[
<!-- Defining rdbhier2 here makes some buggy XML parsers happy. -->
<!ENTITY % rdbhier2 "">
%rdbhier2;
<!--end of dbhier.redecl2.module-->]]>

<!-- ..... -->
<!-- Entities for content models ..... -->

<!ENTITY % div.title.content
 "title, subtitle?, titleabbrev?">

<!ENTITY % bookcomponent.title.content
 "title, subtitle?, titleabbrev?">

<!ENTITY % sect.title.content
 "title, subtitle?, titleabbrev?">

<!ENTITY % refsect.title.content
 "title, subtitle?, titleabbrev?">

<!ENTITY % bookcomponent.content
 "((%divcomponent.mix;)+,
```

```
(sect1*|(%refentry.class;)*|simplesect*|(%section.class;)*))
|
(sect1+|(%refentry.class;)+|simplesect+|(%section.class;)+)">

<!-- ..... -->
<!-- Set and SetInfo ..... -->

<!ENTITY % set.content.module "INCLUDE">
<![%set.content.module;[
<!ENTITY % set.module "INCLUDE">
<![%set.module;[
<!ENTITY % local.set.attrib "">
<!ENTITY % set.role.attrib "%role.attrib;">

<!ENTITY % set.element "INCLUDE">
<![%set.element;[
<!--doc:A collection of books.-->
<!ELEMENT set %ho; ((%div.title.content;)?, setinfo?, toc?, (set|%book.class;)+,
 setindex?)
 %ubiq.inclusion;>
<!--end of set.element-->]]>

<!-- FPI: SGML formal public identifier -->


<!ENTITY % set.attlist "INCLUDE">
<![%set.attlist;[
<!ATTLIST set
 fpi  CDATA  #IMPLIED
 %status.attrib;
 %common.attrib;
 %set.role.attrib;
 %local.set.attrib;
>
<!--end of set.attlist-->]]>
<!--end of set.module-->]]>

<!ENTITY
 % setinfo.module "INCLUDE">
<![%setinfo.module;[
<!ENTITY % local.setinfo.attrib "">
<!ENTITY % setinfo.role.attrib "%role.attrib;">

<!ENTITY % setinfo.element "INCLUDE">
<![%setinfo.element;[
<!--doc:Meta-information for a Set.-->
<!ELEMENT setinfo %ho; ((%info.class;)+)
 %beginpage.exclusion;>
```

```
<!--end of setinfo.element-->]]>

<!-- Contents: IDs of the ToC, Books, and SetIndex that comprise
  the set, in the order of their appearance -->


<!ENTITY % setinfo.attlist "INCLUDE">
<![%setinfo.attlist;[
<!ATTLIST setinfo
  contents IDREFS  #IMPLIED
  %common.attrib;
  %setinfo.role.attrib;
  %local.setinfo.attrib;
>
<!--end of setinfo.attlist-->]]>
<!--end of setinfo.module-->]]>
<!--end of set.content.module-->]]>

<!-- ..................................................................... -->
<!-- Book and BookInfo ..................................................... -->

<!ENTITY % book.content.module "INCLUDE">
<![%book.content.module;[
<!ENTITY % book.module "INCLUDE">
<![%book.module;[

<!ENTITY
 % local.book.attrib "">
<!ENTITY % book.role.attrib "%role.attrib;">

<!ENTITY % book.element "INCLUDE">
<![%book.element;[
<!--doc:A book.-->
<!ELEMENT book %ho; ((%div.title.content;)?, bookinfo?,
  (dedication | toc | lot
  | glossary | bibliography | preface
  | %chapter.class; | reference | part
  | %article.class;
  | %appendix.class;
  | %index.class;
  | colophon)*)
  %ubiq.inclusion;>
<!--end of book.element-->]]>

<!-- FPI: SGML formal public identifier -->


<!ENTITY % book.attlist "INCLUDE">
```

```
<![%book.attlist;[
<!ATTLIST book  fpi  CDATA  #IMPLIED
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %book.role.attrib;
  %local.book.attrib;
>
<!--end of book.attlist-->]]>
<!--end of book.module-->]]>

<!ENTITY % bookinfo.module "INCLUDE">
<![%bookinfo.module;[
<!ENTITY % local.bookinfo.attrib "">
<!ENTITY % bookinfo.role.attrib "%role.attrib;">

<!ENTITY % bookinfo.element "INCLUDE">
<![%bookinfo.element;[
<!--doc:Meta-information for a Book.-->
<!ELEMENT
 bookinfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of bookinfo.element-->]]>

<!-- Contents: IDs of the ToC, LoTs, Prefaces, Parts, Chapters,
  Appendixes, References, GLossary, Bibliography, and indexes
  comprising the Book, in the order of their appearance -->


<!ENTITY % bookinfo.attlist "INCLUDE">
<![%bookinfo.attlist;[
<!ATTLIST bookinfo
  contents IDREFS  #IMPLIED
  %common.attrib;
  %bookinfo.role.attrib;
  %local.bookinfo.attrib;
>
<!--end of bookinfo.attlist-->]]>
<!--end of bookinfo.module-->]]>
<!--end of book.content.module-->]]>

<!-- ..................................................................... -->
<!-- Dedication, ToC, and LoT ..................................... -->

<!ENTITY % dedication.module "INCLUDE">
<![%dedication.module;[
<!ENTITY % local.dedication.attrib "">
<!ENTITY % dedication.role.attrib "%role.attrib;">
```

```
<!ENTITY % dedication.element "INCLUDE">
<![%dedication.element;[
<!--doc:A wrapper for the dedication section
 of a book.-->
<!ELEMENT dedication %ho; ((%sect.title.content;)?, (%legalnotice.mix;)+)>
<!--end of dedication.element-->]]>

<!ENTITY % dedication.attlist "INCLUDE">
<![%dedication.attlist;[
<!ATTLIST dedication
  %status.attrib;
  %common.attrib;
  %dedication.role.attrib;
  %local.dedication.attrib;
>
<!--end of dedication.attlist-->]]>
<!--end of dedication.module-->]]>

<!ENTITY % colophon.module "INCLUDE">
<![ %colophon.module; [
<!ENTITY % local.colophon.attrib "">
<!ENTITY % colophon.role.attrib "%role.attrib;">

<!ENTITY % colophon.element "INCLUDE">
<![ %colophon.element; [
<!--doc:Text at the back of a book describing facts about its production.-->
<!ELEMENT colophon %ho; ((%sect.title.content;)?, (%textobject.mix;)+)>
<!--end of colophon.element-->]]>

<!ENTITY % colophon.attlist "INCLUDE">
<![ %colophon.attlist; [
<!ATTLIST colophon
  %status.attrib;
  %common.attrib;
  %colophon.role.attrib;
  %local.colophon.attrib;>
<!--end of colophon.attlist-->]]>
<!--end of colophon.module-->]]>

<!ENTITY
 % toc.content.module "INCLUDE">
<![%toc.content.module;[
<!ENTITY % toc.module "INCLUDE">
<![%toc.module;[
<!ENTITY % local.toc.attrib "">
<!ENTITY % toc.role.attrib "%role.attrib;">
```

```
<!ENTITY % toc.element "INCLUDE">
<![%toc.element;[
<!--doc:A table of contents.-->
<!ELEMENT toc %ho; (beginpage?,
  (%bookcomponent.title.content;)?,
  tocfront*,
  (tocpart | tocchap)*, tocback*)>
<!--end of toc.element-->]]>

<!ENTITY % toc.attlist "INCLUDE">
<![%toc.attlist;[
<!ATTLIST toc
  %pagenum.attrib;
  %common.attrib;
  %toc.role.attrib;
  %local.toc.attrib;
>
<!--end of toc.attlist-->]]>
<!--end of toc.module-->]]>

<!ENTITY % tocfront.module "INCLUDE">
<![%tocfront.module;[
<!ENTITY % local.tocfront.attrib "">
<!ENTITY % tocfront.role.attrib "%role.attrib;">

<!ENTITY % tocfront.element "INCLUDE">
<![%tocfront.element;[
<!--doc:An entry in a table of contents for a front matter component.-->
<!ELEMENT tocfront %ho; (%para.char.mix;)*>
<!--end of tocfront.element-->]]>

<!--
 to element that this entry represents -->


<!ENTITY % tocfront.attlist "INCLUDE">
<![%tocfront.attlist;[
<!ATTLIST tocfront
  %label.attrib;
  %linkend.attrib;  %pagenum.attrib;
  %common.attrib;
  %tocfront.role.attrib;
  %local.tocfront.attrib;
>
<!--end of tocfront.attlist-->]]>
<!--end of tocfront.module-->]]>

<!ENTITY % tocentry.module "INCLUDE">
```

```
<![%tocentry.module;[
<!ENTITY % local.tocentry.attrib "">
<!ENTITY % tocentry.role.attrib "%role.attrib;">

<!ENTITY % tocentry.element "INCLUDE">
<![%tocentry.element;[
<!--doc:A component title in a table of contents.-->
<!ELEMENT tocentry %ho; (%para.char.mix;)*>
<!--end of tocentry.element-->]]>

<!-- to element that this entry represents -->


<!ENTITY % tocentry.attlist "INCLUDE">
<![%tocentry.attlist;[
<!ATTLIST tocentry
  %linkend.attrib;  %pagenum.attrib;
  %common.attrib;
  %tocentry.role.attrib;
  %local.tocentry.attrib;
>
<!--end of tocentry.attlist-->]]>
<!--end of tocentry.module-->]]>

<!ENTITY % tocpart.module
 "INCLUDE">
<![%tocpart.module;[
<!ENTITY % local.tocpart.attrib "">
<!ENTITY % tocpart.role.attrib "%role.attrib;">

<!ENTITY % tocpart.element "INCLUDE">
<![%tocpart.element;[
<!--doc:An entry in a table of contents for a part of a book.-->
<!ELEMENT tocpart %ho; (tocentry+, tocchap*)>
<!--end of tocpart.element-->]]>

<!ENTITY % tocpart.attlist "INCLUDE">
<![%tocpart.attlist;[
<!ATTLIST tocpart
  %common.attrib;
  %tocpart.role.attrib;
  %local.tocpart.attrib;
>
<!--end of tocpart.attlist-->]]>
<!--end of tocpart.module-->]]>

<!ENTITY % tocchap.module "INCLUDE">
<![%tocchap.module;[
```

```
<!ENTITY % local.tocchap.attrib "">
<!ENTITY % tocchap.role.attrib "%role.attrib;">

<!ENTITY % tocchap.element "INCLUDE">
<![%tocchap.element;[
<!--doc:An entry in a table of contents for a component in the body of a document.-->
<!ELEMENT tocchap %ho; (tocentry+, toclevel1*)>
<!--end of tocchap.element-->]]>

<!ENTITY % tocchap.attlist "INCLUDE">
<![%tocchap.attlist;[
<!ATTLIST tocchap
  %label.attrib;
  %common.attrib;
  %tocchap.role.attrib;
  %local.tocchap.attrib;
>
<!--end
 of tocchap.attlist-->]]>
<!--end of tocchap.module-->]]>

<!ENTITY % toclevel1.module "INCLUDE">
<![%toclevel1.module;[
<!ENTITY % local.toclevel1.attrib "">
<!ENTITY % toclevel1.role.attrib "%role.attrib;">

<!ENTITY % toclevel1.element "INCLUDE">
<![%toclevel1.element;[
<!--doc:A top-level entry within a table of contents entry for a chapter-like component.-->
<!ELEMENT toclevel1 %ho; (tocentry+, toclevel2*)>
<!--end of toclevel1.element-->]]>

<!ENTITY % toclevel1.attlist "INCLUDE">
<![%toclevel1.attlist;[
<!ATTLIST toclevel1
  %common.attrib;
  %toclevel1.role.attrib;
  %local.toclevel1.attrib;
>
<!--end of toclevel1.attlist-->]]>
<!--end of toclevel1.module-->]]>

<!ENTITY % toclevel2.module "INCLUDE">
<![%toclevel2.module;[
<!ENTITY % local.toclevel2.attrib "">
<!ENTITY % toclevel2.role.attrib "%role.attrib;">

<!ENTITY % toclevel2.element "INCLUDE">
```

```
<![%toclevel2.element;[
<!--doc:A second-level entry
 within a table of contents entry for a chapter-like component.-->
<!ELEMENT toclevel2 %ho; (tocentry+, toclevel3*)>
<!--end of toclevel2.element-->]]>

<!ENTITY % toclevel2.attlist "INCLUDE">
<![%toclevel2.attlist;[
<!ATTLIST toclevel2
  %common.attrib;
  %toclevel2.role.attrib;
  %local.toclevel2.attrib;
>
<!--end of toclevel2.attlist-->]]>
<!--end of toclevel2.module-->]]>

<!ENTITY % toclevel3.module "INCLUDE">
<![%toclevel3.module;[
<!ENTITY % local.toclevel3.attrib "">
<!ENTITY % toclevel3.role.attrib "%role.attrib;">

<!ENTITY % toclevel3.element "INCLUDE">
<![%toclevel3.element;[
<!--doc:A third-level entry within a table of contents entry for a chapter-like component.-->
<!ELEMENT toclevel3 %ho; (tocentry+, toclevel4*)>
<!--end of toclevel3.element-->]]>

<!ENTITY % toclevel3.attlist "INCLUDE">
<![%toclevel3.attlist;[
<!ATTLIST toclevel3
  %common.attrib;
  %toclevel3.role.attrib;
  %local.toclevel3.attrib;
>
<!--end of toclevel3.attlist-->]]>
<!--end of toclevel3.module-->]]>

<!ENTITY
 % toclevel4.module "INCLUDE">
<![%toclevel4.module;[
<!ENTITY % local.toclevel4.attrib "">
<!ENTITY % toclevel4.role.attrib "%role.attrib;">

<!ENTITY % toclevel4.element "INCLUDE">
<![%toclevel4.element;[
<!--doc:A fourth-level entry within a table of contents entry for a chapter-like component.-->
<!ELEMENT toclevel4 %ho; (tocentry+, toclevel5*)>
<!--end of toclevel4.element-->]]>
```

```
<!ENTITY % toclevel4.attlist "INCLUDE">
<![%toclevel4.attlist;[
<!ATTLIST toclevel4
  %common.attrib;
  %toclevel4.role.attrib;
  %local.toclevel4.attrib;
>
<!--end of toclevel4.attlist-->]]>
<!--end of toclevel4.module-->]]>

<!ENTITY % toclevel5.module "INCLUDE">
<![%toclevel5.module;[
<!ENTITY % local.toclevel5.attrib "">
<!ENTITY % toclevel5.role.attrib "%role.attrib;">

<!ENTITY % toclevel5.element "INCLUDE">
<![%toclevel5.element;[
<!--doc:A fifth-level entry within a table of contents entry for a chapter-like component.-->
<!ELEMENT toclevel5 %ho; (tocentry+)>
<!--end of toclevel5.element-->]]>

<!ENTITY
 % toclevel5.attlist "INCLUDE">
<![%toclevel5.attlist;[
<!ATTLIST toclevel5
  %common.attrib;
  %toclevel5.role.attrib;
  %local.toclevel5.attrib;
>
<!--end of toclevel5.attlist-->]]>
<!--end of toclevel5.module-->]]>

<!ENTITY % tocback.module "INCLUDE">
<![%tocback.module;[
<!ENTITY % local.tocback.attrib "">
<!ENTITY % tocback.role.attrib "%role.attrib;">

<!ENTITY % tocback.element "INCLUDE">
<![%tocback.element;[
<!--doc:An entry in a table of contents for a back matter component.-->
<!ELEMENT tocback %ho; (%para.char.mix;)*>
<!--end of tocback.element-->]]>

<!-- to element that this entry represents -->


<!ENTITY % tocback.attlist "INCLUDE">
```

```
<![%tocback.attlist;[
<!ATTLIST tocback
  %label.attrib;
  %linkend.attrib;  %pagenum.attrib;
  %common.attrib;
  %tocback.role.attrib;
  %local.tocback.attrib;
>
<!--end of tocback.attlist-->]]>
<!--end of tocback.module-->]]>
<!--end of toc.content.module-->]]>

<!ENTITY % lot.content.module "INCLUDE">
<![%lot.content.module;[
<!ENTITY
 % lot.module "INCLUDE">
<![%lot.module;[
<!ENTITY % local.lot.attrib "">
<!ENTITY % lot.role.attrib "%role.attrib;">

<!ENTITY % lot.element "INCLUDE">
<![%lot.element;[
<!--doc:A list of the titles of formal objects (as tables or figures) in a document.-->
<!ELEMENT lot %ho; (beginpage?, (%bookcomponent.title.content;)?, lotentry*)>
<!--end of lot.element-->]]>

<!ENTITY % lot.attlist "INCLUDE">
<![%lot.attlist;[
<!ATTLIST lot
  %label.attrib;
  %common.attrib;
  %lot.role.attrib;
  %local.lot.attrib;
>
<!--end of lot.attlist-->]]>
<!--end of lot.module-->]]>

<!ENTITY % lotentry.module "INCLUDE">
<![%lotentry.module;[
<!ENTITY % local.lotentry.attrib "">
<!ENTITY % lotentry.role.attrib "%role.attrib;">

<!ENTITY % lotentry.element "INCLUDE">
<![%lotentry.element;[
<!--doc:An entry in a list of titles.-->
<!ELEMENT lotentry %ho; (%para.char.mix;)*>
<!--end of lotentry.element-->]]>
```

```
<!-- SrcCredit: Information about the source of the entry,
  as for a list of illustrations
 -->
<!-- linkend: to element that this entry represents-->
<!ENTITY % lotentry.attlist "INCLUDE">
<![%lotentry.attlist;[
<!ATTLIST lotentry
  %linkend.attrib;
  %pagenum.attrib;
  srccredit CDATA  #IMPLIED
  %common.attrib;
  %lotentry.role.attrib;
  %local.lotentry.attrib;
>
<!--end of lotentry.attlist-->]]>
<!--end of lotentry.module-->]]>
<!--end of lot.content.module-->]]>

<!-- ..................................................................... -->
<!-- Appendix, Chapter, Part, Preface, Reference, PartIntro ..... -->

<!ENTITY % appendix.module "INCLUDE">
<![%appendix.module;[
<!ENTITY % local.appendix.attrib "">
<!ENTITY % appendix.role.attrib "%role.attrib;">

<!ENTITY % appendix.element "INCLUDE">
<![%appendix.element;[
<!--doc:An appendix in a Book or Article.-->
<!ELEMENT appendix %ho; (beginpage?,
                 appendixinfo?,
                 (%bookcomponent.title.content;),
                 (%nav.class;)*,
                 tocchap?,

              (%bookcomponent.content;),
                 (%nav.class;)*)
  %ubiq.inclusion;>
<!--end of appendix.element-->]]>

<!ENTITY % appendix.attlist "INCLUDE">
<![%appendix.attlist;[
<!ATTLIST appendix
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %appendix.role.attrib;
  %local.appendix.attrib;
```

```
>
<!--end of appendix.attlist-->]]>
<!--end of appendix.module-->]]>

<!ENTITY % chapter.module "INCLUDE">
<![%chapter.module;[
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">

<!ENTITY % chapter.element "INCLUDE">
<![%chapter.element;[
<!--doc:A chapter, as of a book.-->
<!ELEMENT chapter %ho; (beginpage?,
                chapterinfo?,
                (%bookcomponent.title.content;),
                (%nav.class;)*,
                tocchap?,
                (%bookcomponent.content;),
                (%nav.class;)*)
  %ubiq.inclusion;>
<!--end of chapter.element-->]]>

<!ENTITY % chapter.attlist "INCLUDE">
<![%chapter.attlist;[
<!ATTLIST
 chapter
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %chapter.role.attrib;
  %local.chapter.attrib;
>
<!--end of chapter.attlist-->]]>
<!--end of chapter.module-->]]>

<!ENTITY % part.module "INCLUDE">
<![%part.module;[

<!-- Note that Part was to have its content model reduced in V4.5.  This
change will not be made after all. -->

<!ENTITY % local.part.attrib "">
<!ENTITY % part.role.attrib "%role.attrib;">

<!ENTITY % part.element "INCLUDE">
<![%part.element;[
<!--doc:A division in a book.-->
<!ELEMENT part %ho; (beginpage?,
```

```
            partinfo?, (%bookcomponent.title.content;), partintro?,
  (%partcontent.mix;)+)
  %ubiq.inclusion;>
<!--end of part.element-->]]>

<!ENTITY % part.attlist "INCLUDE">
<![%part.attlist;[
<!ATTLIST part
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %part.role.attrib;
  %local.part.attrib;
>
<!--end of part.attlist-->]]>
<!--ELEMENT PartIntro (defined below)-->
<!--end of part.module-->]]>

<!ENTITY % preface.module
 "INCLUDE">
<![%preface.module;[
<!ENTITY % local.preface.attrib "">
<!ENTITY % preface.role.attrib "%role.attrib;">

<!ENTITY % preface.element "INCLUDE">
<![%preface.element;[
<!--doc:Introductory matter preceding the first chapter of a book.-->
<!ELEMENT preface %ho; (beginpage?,
                prefaceinfo?,
                (%bookcomponent.title.content;),
                (%nav.class;)*,
                tocchap?,
                (%bookcomponent.content;),
                (%nav.class;)*)
  %ubiq.inclusion;>
<!--end of preface.element-->]]>

<!ENTITY % preface.attlist "INCLUDE">
<![%preface.attlist;[
<!ATTLIST preface
  %status.attrib;
  %common.attrib;
  %preface.role.attrib;
  %local.preface.attrib;
>
<!--end of preface.attlist-->]]>
<!--end of preface.module-->]]>
```

```
<!ENTITY % reference.module "INCLUDE">
<![%reference.module;[
<!ENTITY % local.reference.attrib "">
<!ENTITY % reference.role.attrib "%role.attrib;">

<!ENTITY % reference.element "INCLUDE">
<![%reference.element;[
<!--doc:A
 collection of reference entries.-->
<!ELEMENT reference %ho; (beginpage?,
                referenceinfo?,
                (%bookcomponent.title.content;), partintro?,
                (%refentry.class;)+)
  %ubiq.inclusion;>
<!--end of reference.element-->]]>

<!ENTITY % reference.attlist "INCLUDE">
<![%reference.attlist;[
<!ATTLIST reference
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %reference.role.attrib;
  %local.reference.attrib;
>
<!--end of reference.attlist-->]]>
<!--ELEMENT PartIntro (defined below)-->
<!--end of reference.module-->]]>

<!ENTITY % partintro.module "INCLUDE">
<![%partintro.module;[
<!ENTITY % local.partintro.attrib "">
<!ENTITY % partintro.role.attrib "%role.attrib;">

<!ENTITY % partintro.element "INCLUDE">
<![%partintro.element;[
<!--doc:An introduction to the contents of a part.-->
<!ELEMENT partintro %ho; ((%div.title.content;)?, (%bookcomponent.content;))
  %ubiq.inclusion;>
<!--end of partintro.element-->]]>

<!ENTITY
 % partintro.attlist "INCLUDE">
<![%partintro.attlist;[
<!ATTLIST partintro
  %label.attrib;
  %common.attrib;
  %partintro.role.attrib;
```

```
  %local.partintro.attrib;
>
<!--end of partintro.attlist-->]]>
<!--end of partintro.module-->]]>

<!-- ..... -->
<!-- Other Info elements ..... -->

<!ENTITY % appendixinfo.module "INCLUDE">
<![ %appendixinfo.module; [
<!ENTITY % local.appendixinfo.attrib "">
<!ENTITY % appendixinfo.role.attrib "%role.attrib;">

<!ENTITY % appendixinfo.element "INCLUDE">
<![ %appendixinfo.element; [
<!--doc:Meta-information for an Appendix.-->
<!ELEMENT appendixinfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of appendixinfo.element-->]]>

<!ENTITY % appendixinfo.attlist "INCLUDE">
<![ %appendixinfo.attlist; [
<!ATTLIST appendixinfo
  %common.attrib;
  %appendixinfo.role.attrib;
  %local.appendixinfo.attrib;
>
<!--end of appendixinfo.attlist-->]]>
<!--end
 of appendixinfo.module-->]]>

<!ENTITY % bibliographyinfo.module "INCLUDE">
<![ %bibliographyinfo.module; [
<!ENTITY % local.bibliographyinfo.attrib "">
<!ENTITY % bibliographyinfo.role.attrib "%role.attrib;">

<!ENTITY % bibliographyinfo.element "INCLUDE">
<![ %bibliographyinfo.element; [
<!--doc:Meta-information for a Bibliography.-->
<!ELEMENT bibliographyinfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of bibliographyinfo.element-->]]>

<!ENTITY % bibliographyinfo.attlist "INCLUDE">
<![ %bibliographyinfo.attlist; [
<!ATTLIST bibliographyinfo
  %common.attrib;
  %bibliographyinfo.role.attrib;
```

```
 %local.bibliographyinfo.attrib;
>
<!--end of bibliographyinfo.attlist-->]]>
<!--end of bibliographyinfo.module-->]]>

<!ENTITY % chapterinfo.module "INCLUDE">
<![ %chapterinfo.module; [
<!ENTITY % local.chapterinfo.attrib "">
<!ENTITY % chapterinfo.role.attrib "%role.attrib;">

<!ENTITY % chapterinfo.element "INCLUDE">
<![ %chapterinfo.element; [
<!--doc:Meta-information
 for a Chapter.-->
<!ELEMENT chapterinfo %ho; ((%info.class;)+)
 %beginpage.exclusion;>
<!--end of chapterinfo.element-->]]>

<!ENTITY % chapterinfo.attlist "INCLUDE">
<![ %chapterinfo.attlist; [
<!ATTLIST chapterinfo
 %common.attrib;
 %chapterinfo.role.attrib;
 %local.chapterinfo.attrib;
>
<!--end of chapterinfo.attlist-->]]>
<!--end of chapterinfo.module-->]]>

<!ENTITY % glossaryinfo.module "INCLUDE">
<![ %glossaryinfo.module; [
<!ENTITY % local.glossaryinfo.attrib "">
<!ENTITY % glossaryinfo.role.attrib "%role.attrib;">

<!ENTITY % glossaryinfo.element "INCLUDE">
<![ %glossaryinfo.element; [
<!--doc:Meta-information for a Glossary.-->
<!ELEMENT glossaryinfo %ho; ((%info.class;)+)
 %beginpage.exclusion;>
<!--end of glossaryinfo.element-->]]>

<!ENTITY % glossaryinfo.attlist "INCLUDE">
<![ %glossaryinfo.attlist; [
<!ATTLIST glossaryinfo
 %common.attrib;
 %glossaryinfo.role.attrib;
 %local.glossaryinfo.attrib;
>
<!--end of glossaryinfo.attlist-->]]>
```

```
<!--end
 of glossaryinfo.module-->]]>

<!ENTITY % indexinfo.module "INCLUDE">
<![ %indexinfo.module; [
<!ENTITY % local.indexinfo.attrib "">
<!ENTITY % indexinfo.role.attrib "%role.attrib;">

<!ENTITY % indexinfo.element "INCLUDE">
<![ %indexinfo.element; [
<!--doc:Meta-information for an Index.-->
<!ELEMENT indexinfo %ho; ((%info.class;)+)>
<!--end of indexinfo.element-->]]>

<!ENTITY % indexinfo.attlist "INCLUDE">
<![ %indexinfo.attlist; [
<!ATTLIST indexinfo
  %common.attrib;
  %indexinfo.role.attrib;
  %local.indexinfo.attrib;
>
<!--end of indexinfo.attlist-->]]>
<!--end of indexinfo.module-->]]>

<!ENTITY % setindexinfo.module "INCLUDE">
<![ %setindexinfo.module; [
<!ENTITY % local.setindexinfo.attrib "">
<!ENTITY % setindexinfo.role.attrib "%role.attrib;">

<!ENTITY % setindexinfo.element "INCLUDE">
<![ %setindexinfo.element; [
<!--doc:Meta-information for a SetIndex.-->
<!ELEMENT setindexinfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of setindexinfo.element-->]]>

<!ENTITY
 % setindexinfo.attlist "INCLUDE">
<![ %setindexinfo.attlist; [
<!ATTLIST setindexinfo
  %common.attrib;
  %setindexinfo.role.attrib;
  %local.setindexinfo.attrib;
>
<!--end of setindexinfo.attlist-->]]>
<!--end of setindexinfo.module-->]]>

<!ENTITY % partinfo.module "INCLUDE">
```

```
<![ %partinfo.module; [
<!ENTITY % local.partinfo.attrib "">
<!ENTITY % partinfo.role.attrib "%role.attrib;">

<!ENTITY % partinfo.element "INCLUDE">
<![ %partinfo.element; [
<!--doc:Meta-information for a Part.-->
<!ELEMENT partinfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of partinfo.element-->]]>

<!ENTITY % partinfo.attlist "INCLUDE">
<![ %partinfo.attlist; [
<!ATTLIST partinfo
  %common.attrib;
  %partinfo.role.attrib;
  %local.partinfo.attrib;
>
<!--end of partinfo.attlist-->]]>
<!--end of partinfo.module-->]]>

<!ENTITY % prefaceinfo.module "INCLUDE">
<![ %prefaceinfo.module; [
<!ENTITY % local.prefaceinfo.attrib "">
<!ENTITY % prefaceinfo.role.attrib "%role.attrib;">

<!ENTITY % prefaceinfo.element
 "INCLUDE">
<![ %prefaceinfo.element; [
<!--doc:Meta-information for a Preface.-->
<!ELEMENT prefaceinfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of prefaceinfo.element-->]]>

<!ENTITY % prefaceinfo.attlist "INCLUDE">
<![ %prefaceinfo.attlist; [
<!ATTLIST prefaceinfo
  %common.attrib;
  %prefaceinfo.role.attrib;
  %local.prefaceinfo.attrib;
>
<!--end of prefaceinfo.attlist-->]]>
<!--end of prefaceinfo.module-->]]>

<!ENTITY % refentryinfo.module "INCLUDE">
<![ %refentryinfo.module; [
<!ENTITY % local.refentryinfo.attrib "">
<!ENTITY % refentryinfo.role.attrib "%role.attrib;">
```

```
<!ENTITY % refentryinfo.element "INCLUDE">
<![ %refentryinfo.element; [
<!--doc:Meta-information for a Refentry.-->
<!ELEMENT refentryinfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of refentryinfo.element-->]]>

<!ENTITY % refentryinfo.attlist "INCLUDE">
<![ %refentryinfo.attlist; [
<!ATTLIST refentryinfo
  %common.attrib;
  %refentryinfo.role.attrib;
  %local.refentryinfo.attrib;
>
<!--end
 of refentryinfo.attlist-->]]>
<!--end of refentryinfo.module-->]]>

<!ENTITY % refsectioninfo.module "INCLUDE">
<![ %refsectioninfo.module; [
<!ENTITY % local.refsectioninfo.attrib "">
<!ENTITY % refsectioninfo.role.attrib "%role.attrib;">

<!ENTITY % refsectioninfo.element "INCLUDE">
<![ %refsectioninfo.element; [
<!--doc:Meta-information for a refsection.-->
<!ELEMENT refsectioninfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of refsectioninfo.element-->]]>

<!ENTITY % refsectioninfo.attlist "INCLUDE">
<![ %refsectioninfo.attlist; [
<!ATTLIST refsectioninfo
  %common.attrib;
  %refsectioninfo.role.attrib;
  %local.refsectioninfo.attrib;
>
<!--end of refsectioninfo.attlist-->]]>
<!--end of refsectioninfo.module-->]]>

<!ENTITY % refsect1info.module "INCLUDE">
<![ %refsect1info.module; [
<!ENTITY % local.refsect1info.attrib "">
<!ENTITY % refsect1info.role.attrib "%role.attrib;">

<!ENTITY % refsect1info.element "INCLUDE">
<![ %refsect1info.element; [
```

```
<!--doc:Meta-information
 for a RefSect1.-->
<!ELEMENT refsect1info %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of refsect1info.element-->]]>

<!ENTITY % refsect1info.attlist "INCLUDE">
<![ %refsect1info.attlist; [
<!ATTLIST refsect1info
  %common.attrib;
  %refsect1info.role.attrib;
  %local.refsect1info.attrib;
>
<!--end of refsect1info.attlist-->]]>
<!--end of refsect1info.module-->]]>

<!ENTITY % refsect2info.module "INCLUDE">
<![ %refsect2info.module; [
<!ENTITY % local.refsect2info.attrib "">
<!ENTITY % refsect2info.role.attrib "%role.attrib;">

<!ENTITY % refsect2info.element "INCLUDE">
<![ %refsect2info.element; [
<!--doc:Meta-information for a RefSect2.-->
<!ELEMENT refsect2info %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of refsect2info.element-->]]>

<!ENTITY % refsect2info.attlist "INCLUDE">
<![ %refsect2info.attlist; [
<!ATTLIST refsect2info
  %common.attrib;
  %refsect2info.role.attrib;
  %local.refsect2info.attrib;
>
<!--end of refsect2info.attlist-->]]>
<!--end
 of refsect2info.module-->]]>

<!ENTITY % refsect3info.module "INCLUDE">
<![ %refsect3info.module; [
<!ENTITY % local.refsect3info.attrib "">
<!ENTITY % refsect3info.role.attrib "%role.attrib;">

<!ENTITY % refsect3info.element "INCLUDE">
<![ %refsect3info.element; [
<!--doc:Meta-information for a RefSect3.-->
<!ELEMENT refsect3info %ho; ((%info.class;)+)
```

```
 %beginpage.exclusion;>
<!--end of refsect3info.element-->]]>

<!ENTITY % refsect3info.attlist "INCLUDE">
<![ %refsect3info.attlist; [
<!ATTLIST refsect3info
 %common.attrib;
 %refsect3info.role.attrib;
 %local.refsect3info.attrib;
>
<!--end of refsect3info.attlist-->]]>
<!--end of refsect3info.module-->]]>

<!ENTITY % refsynopsisdivinfo.module "INCLUDE">
<![ %refsynopsisdivinfo.module; [
<!ENTITY % local.refsynopsisdivinfo.attrib "">
<!ENTITY % refsynopsisdivinfo.role.attrib "%role.attrib;">

<!ENTITY % refsynopsisdivinfo.element "INCLUDE">
<![ %refsynopsisdivinfo.element; [
<!--doc:Meta-information for a RefSynopsisDiv.-->
<!ELEMENT
 refsynopsisdivinfo %ho; ((%info.class;)+)
 %beginpage.exclusion;>
<!--end of refsynopsisdivinfo.element-->]]>

<!ENTITY % refsynopsisdivinfo.attlist "INCLUDE">
<![ %refsynopsisdivinfo.attlist; [
<!ATTLIST refsynopsisdivinfo
 %common.attrib;
 %refsynopsisdivinfo.role.attrib;
 %local.refsynopsisdivinfo.attrib;
>
<!--end of refsynopsisdivinfo.attlist-->]]>
<!--end of refsynopsisdivinfo.module-->]]>

<!ENTITY % referenceinfo.module "INCLUDE">
<![ %referenceinfo.module; [
<!ENTITY % local.referenceinfo.attrib "">
<!ENTITY % referenceinfo.role.attrib "%role.attrib;">

<!ENTITY % referenceinfo.element "INCLUDE">
<![ %referenceinfo.element; [
<!--doc:Meta-information for a Reference.-->
<!ELEMENT referenceinfo %ho; ((%info.class;)+)
 %beginpage.exclusion;>
<!--end of referenceinfo.element-->]]>
```

```
<!ENTITY % referenceinfo.attlist "INCLUDE">
<![ %referenceinfo.attlist; [
<!ATTLIST referenceinfo
  %common.attrib;
  %referenceinfo.role.attrib;
  %local.referenceinfo.attrib;
>
<!--end
 of referenceinfo.attlist-->]]>
<!--end of referenceinfo.module-->]]>

<!ENTITY % local.sect1info.attrib "">
<!ENTITY % sect1info.role.attrib "%role.attrib;">

<!ENTITY % sect1info.element "INCLUDE">
<![%sect1info.element;[
<!--doc:Meta-information for a Sect1.-->
<!ELEMENT sect1info %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of sect1info.element-->]]>

<!ENTITY % sect1info.attlist "INCLUDE">
<![%sect1info.attlist;[
<!ATTLIST sect1info
  %common.attrib;
  %sect1info.role.attrib;
  %local.sect1info.attrib;
>
<!--end of sect1info.attlist-->]]>

<!ENTITY % local.sect2info.attrib "">
<!ENTITY % sect2info.role.attrib "%role.attrib;">

<!ENTITY % sect2info.element "INCLUDE">
<![%sect2info.element;[
<!--doc:Meta-information for a Sect2.-->
<!ELEMENT sect2info %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of sect2info.element-->]]>

<!ENTITY % sect2info.attlist "INCLUDE">
<![%sect2info.attlist;[
<!ATTLIST sect2info
  %common.attrib;
  %sect2info.role.attrib;
  %local.sect2info.attrib;
>
<!--end
```

```
 of sect2info.attlist-->]]>

<!ENTITY % local.sect3info.attrib "">
<!ENTITY % sect3info.role.attrib "%role.attrib;">

<!ENTITY % sect3info.element "INCLUDE">
<![%sect3info.element;[
<!--doc:Meta-information for a Sect3.-->
<!ELEMENT sect3info %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of sect3info.element-->]]>

<!ENTITY % sect3info.attlist "INCLUDE">
<![%sect3info.attlist;[
<!ATTLIST sect3info
  %common.attrib;
  %sect3info.role.attrib;
  %local.sect3info.attrib;
>
<!--end of sect3info.attlist-->]]>

<!ENTITY % local.sect4info.attrib "">
<!ENTITY % sect4info.role.attrib "%role.attrib;">

<!ENTITY % sect4info.element "INCLUDE">
<![%sect4info.element;[
<!--doc:Meta-information for a Sect4.-->
<!ELEMENT sect4info %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of sect4info.element-->]]>

<!ENTITY % sect4info.attlist "INCLUDE">
<![%sect4info.attlist;[
<!ATTLIST sect4info
  %common.attrib;
  %sect4info.role.attrib;
  %local.sect4info.attrib;
>
<!--end
 of sect4info.attlist-->]]>

<!ENTITY % local.sect5info.attrib "">
<!ENTITY % sect5info.role.attrib "%role.attrib;">

<!ENTITY % sect5info.element "INCLUDE">
<![%sect5info.element;[
<!--doc:Meta-information for a Sect5.-->
<!ELEMENT sect5info %ho; ((%info.class;)+)
```

```
  %beginpage.exclusion;>
<!--end of sect5info.element-->]]>

<!ENTITY % sect5info.attlist "INCLUDE">
<![%sect5info.attlist;[
<!ATTLIST sect5info
  %common.attrib;
  %sect5info.role.attrib;
  %local.sect5info.attrib;
>
<!--end of sect5info.attlist-->]]>

<!-- ..... -->
<!-- Section (parallel to Sect*) ..... -->

<!ENTITY % section.content.module "INCLUDE">
<![ %section.content.module; [
<!ENTITY % section.module "INCLUDE">
<![ %section.module; [
<!ENTITY % local.section.attrib "">
<!ENTITY % section.role.attrib "%role.attrib;">

<!ENTITY % section.element "INCLUDE">
<![ %section.element; [
<!--doc:A recursive section.-->
<!ELEMENT
 section %ho; (sectioninfo?,
   (%sect.title.content;),
   (%nav.class;)*,
   (((%divcomponent.mix;)+,
     ((%refentry.class;)*|(%section.class;)*|simplesect*))
    | (%refentry.class;)+|(%section.class;)+|simplesect+),
   (%nav.class;)*)
  %ubiq.inclusion;>
<!--end of section.element-->]]>

<!ENTITY % section.attlist "INCLUDE">
<![ %section.attlist; [
<!ATTLIST section
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %section.role.attrib;
  %local.section.attrib;
>
<!--end of section.attlist-->]]>
<!--end of section.module-->]]>
```

```
<!ENTITY % sectioninfo.module "INCLUDE">
<![ %sectioninfo.module; [
<!ENTITY % sectioninfo.role.attrib "%role.attrib;">
<!ENTITY % local.sectioninfo.attrib "">

<!ENTITY % sectioninfo.element "INCLUDE">
<![ %sectioninfo.element; [
<!--doc:Meta-information for a recursive section.-->
<!ELEMENT sectioninfo %ho; ((%info.class;)+)
 %beginpage.exclusion;>
<!--end of sectioninfo.element-->]]>

<!ENTITY % sectioninfo.attlist "INCLUDE">
<![
 %sectioninfo.attlist; [
<!ATTLIST sectioninfo
 %common.attrib;
 %sectioninfo.role.attrib;
 %local.sectioninfo.attrib;
>
<!--end of sectioninfo.attlist-->]]>
<!--end of sectioninfo.module-->]]>
<!--end of section.content.module-->]]>

<!-- ..... -->
<!-- Sect1, Sect2, Sect3, Sect4, Sect5 ..... -->

<!ENTITY % sect1.module "INCLUDE">
<![%sect1.module;[
<!ENTITY % local.sect1.attrib "">
<!ENTITY % sect1.role.attrib "%role.attrib;">

<!ENTITY % sect1.element "INCLUDE">
<![%sect1.element;[
<!--doc:A top-level section of document.-->
<!ELEMENT sect1 %ho; (sect1info?, (%sect.title.content;), (%nav.class;)*,
 (((%divcomponent.mix;)+,
 ((%refentry.class;)* | sect2* | simplesect*))
 | (%refentry.class;)+ | sect2+ | simplesect+), (%nav.class;)*)
 %ubiq.inclusion;>
<!--end of sect1.element-->]]>

<!-- Renderas: Indicates the format in which the heading should
 appear -->


<!ENTITY % sect1.attlist
```

```
 "INCLUDE">
<![%sect1.attlist;[
<!ATTLIST sect1
  renderas (sect2
    |sect3
    |sect4
    |sect5)  #IMPLIED
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %sect1.role.attrib;
  %local.sect1.attrib;
>
<!--end of sect1.attlist-->]]>
<!--end of sect1.module-->]]>

<!ENTITY % sect2.module "INCLUDE">
<![%sect2.module;[
<!ENTITY % local.sect2.attrib "">
<!ENTITY % sect2.role.attrib "%role.attrib;">

<!ENTITY % sect2.element "INCLUDE">
<![%sect2.element;[
<!--doc:A subsection within a Sect1.-->
<!ELEMENT sect2 %ho; (sect2info?, (%sect.title.content;), (%nav.class;)*,
  (((%divcomponent.mix;)+,
  ((%refentry.class;)* | sect3* | simplesect*))
  | (%refentry.class;)+ | sect3+ | simplesect+), (%nav.class;)*)>
<!--end of sect2.element-->]]>

<!-- Renderas: Indicates the format in which the heading should
  appear -->


<!ENTITY % sect2.attlist "INCLUDE">
<![%sect2.attlist;[
<!ATTLIST sect2
  renderas (sect1
    |sect3
    |sect4
    |sect5)  #IMPLIED
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %sect2.role.attrib;
  %local.sect2.attrib;
>
<!--end
```

```
 of sect2.attlist-->]]>
<!--end of sect2.module-->]]>

<!ENTITY % sect3.module "INCLUDE">
<![%sect3.module;[
<!ENTITY % local.sect3.attrib "">
<!ENTITY % sect3.role.attrib "%role.attrib;">

<!ENTITY % sect3.element "INCLUDE">
<![%sect3.element;[
<!--doc:A subsection within a Sect2.-->
<!ELEMENT sect3 %ho; (sect3info?, (%sect.title.content;), (%nav.class;)*,
  (((%divcomponent.mix;)+,
  ((%refentry.class;)* | sect4* | simplesect*))
  | (%refentry.class;)+ | sect4+ | simplesect+), (%nav.class;)*)>
<!--end of sect3.element-->]]>

<!-- Renderas: Indicates the format in which the heading should
  appear -->


<!ENTITY % sect3.attlist "INCLUDE">
<![%sect3.attlist;[
<!ATTLIST sect3
  renderas (sect1
    |sect2
    |sect4
    |sect5)  #IMPLIED
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %sect3.role.attrib;
  %local.sect3.attrib;
>
<!--end of sect3.attlist-->]]>
<!--end of sect3.module-->]]>

<!ENTITY % sect4.module
 "INCLUDE">
<![%sect4.module;[
<!ENTITY % local.sect4.attrib "">
<!ENTITY % sect4.role.attrib "%role.attrib;">

<!ENTITY % sect4.element "INCLUDE">
<![%sect4.element;[
<!--doc:A subsection within a Sect3.-->
<!ELEMENT sect4 %ho; (sect4info?, (%sect.title.content;), (%nav.class;)*,
  (((%divcomponent.mix;)+,
```

```
  ((%refentry.class;)* | sect5* | simplesect*))
  | (%refentry.class;)+ | sect5+ | simplesect+), (%nav.class;)*)>
<!--end of sect4.element-->]]>

<!-- Renderas: Indicates the format in which the heading should
  appear -->


<!ENTITY % sect4.attlist "INCLUDE">
<![%sect4.attlist;[
<!ATTLIST sect4
  renderas (sect1
    |sect2
    |sect3
    |sect5)  #IMPLIED
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %sect4.role.attrib;
  %local.sect4.attrib;
>
<!--end of sect4.attlist-->]]>
<!--end of sect4.module-->]]>

<!ENTITY % sect5.module "INCLUDE">
<![%sect5.module;[
<!ENTITY % local.sect5.attrib "">
<!ENTITY % sect5.role.attrib "%role.attrib;">

<!ENTITY % sect5.element "INCLUDE">
<![%sect5.element;[
<!--doc:A
 subsection within a Sect4.-->
<!ELEMENT sect5 %ho; (sect5info?, (%sect.title.content;), (%nav.class;)*,
  (((%divcomponent.mix;)+, ((%refentry.class;)* | simplesect*))
  | (%refentry.class;)+ | simplesect+), (%nav.class;)*)>
<!--end of sect5.element-->]]>

<!-- Renderas: Indicates the format in which the heading should
  appear -->


<!ENTITY % sect5.attlist "INCLUDE">
<![%sect5.attlist;[
<!ATTLIST sect5
  renderas (sect1
    |sect2
    |sect3
```

```
   |sect4)  #IMPLIED
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %sect5.role.attrib;
  %local.sect5.attrib;
>
<!--end of sect5.attlist-->]]>
<!--end of sect5.module-->]]>

<!ENTITY % simplesect.module "INCLUDE">
<![%simplesect.module;[
<!ENTITY % local.simplesect.attrib "">
<!ENTITY % simplesect.role.attrib "%role.attrib;">

<!ENTITY % simplesect.element "INCLUDE">
<![%simplesect.element;[
<!--doc:A section of a document with no subdivisions.-->
<!ELEMENT simplesect %ho; ((%sect.title.content;), (%divcomponent.mix;)+)
  %ubiq.inclusion;>
<!--end
 of simplesect.element-->]]>

<!ENTITY % simplesect.attlist "INCLUDE">
<![%simplesect.attlist;[
<!ATTLIST simplesect
  %common.attrib;
  %simplesect.role.attrib;
  %local.simplesect.attrib;
>
<!--end of simplesect.attlist-->]]>
<!--end of simplesect.module-->]]>

<!-- ..... -->
<!-- Bibliography ..... -->

<!ENTITY % bibliography.content.module "INCLUDE">
<![%bibliography.content.module;[
<!ENTITY % bibliography.module "INCLUDE">
<![%bibliography.module;[
<!ENTITY % local.bibliography.attrib "">
<!ENTITY % bibliography.role.attrib "%role.attrib;">

<!ENTITY % bibliography.element "INCLUDE">
<![%bibliography.element;[
<!--doc:A bibliography.-->
<!ELEMENT bibliography %ho; (bibliographyinfo?,
                    (%bookcomponent.title.content;)?,
```

```
                (%component.mix;)*,
                (bibliodiv+
 | (biblioentry|bibliomixed)+))>
<!--end of bibliography.element-->]]>

<!ENTITY % bibliography.attlist "INCLUDE">
<![%bibliography.attlist;[
<!ATTLIST bibliography
  %status.attrib;
  %common.attrib;
  %bibliography.role.attrib;
  %local.bibliography.attrib;
>
<!--end of bibliography.attlist-->]]>
<!--end of bibliography.module-->]]>

<!ENTITY % bibliodiv.module "INCLUDE">
<![%bibliodiv.module;[
<!ENTITY % local.bibliodiv.attrib "">
<!ENTITY % bibliodiv.role.attrib "%role.attrib;">

<!ENTITY % bibliodiv.element "INCLUDE">
<![%bibliodiv.element;[
<!--doc:A section of a Bibliography.-->
<!ELEMENT bibliodiv %ho; ((%sect.title.content;)?, (%component.mix;)*,
  (biblioentry|bibliomixed)+)>
<!--end of bibliodiv.element-->]]>

<!ENTITY % bibliodiv.attlist "INCLUDE">
<![%bibliodiv.attlist;[
<!ATTLIST bibliodiv
  %status.attrib;
  %common.attrib;
  %bibliodiv.role.attrib;
  %local.bibliodiv.attrib;
>
<!--end of bibliodiv.attlist-->]]>
<!--end of bibliodiv.module-->]]>
<!--end of bibliography.content.module-->]]>

<!--
 ..................................................................... -->
<!-- Glossary ..... -->

<!ENTITY % glossary.content.module "INCLUDE">
<![%glossary.content.module;[
<!ENTITY % glossary.module "INCLUDE">
<![%glossary.module;[
```

```
<!ENTITY % local.glossary.attrib "">
<!ENTITY % glossary.role.attrib "%role.attrib;">

<!ENTITY % glossary.element "INCLUDE">
<![%glossary.element;[
<!--doc:A glossary.-->
<!ELEMENT glossary %ho; (glossaryinfo?,
                (%bookcomponent.title.content;)?,
                (%component.mix;)*,
                (glossdiv+ | glossentry+), bibliography?)>
<!--end of glossary.element-->]]>

<!ENTITY % glossary.attlist "INCLUDE">
<![%glossary.attlist;[
<!ATTLIST glossary
  %status.attrib;
  %common.attrib;
  %glossary.role.attrib;
  %local.glossary.attrib;
>
<!--end of glossary.attlist-->]]>
<!--end of glossary.module-->]]>

<!ENTITY % glossdiv.module "INCLUDE">
<![%glossdiv.module;[
<!ENTITY
 % local.glossdiv.attrib "">
<!ENTITY % glossdiv.role.attrib "%role.attrib;">

<!ENTITY % glossdiv.element "INCLUDE">
<![%glossdiv.element;[
<!--doc:A division in a Glossary.-->
<!ELEMENT glossdiv %ho; ((%sect.title.content;), (%component.mix;)*,
  glossentry+)>
<!--end of glossdiv.element-->]]>

<!ENTITY % glossdiv.attlist "INCLUDE">
<![%glossdiv.attlist;[
<!ATTLIST glossdiv
  %status.attrib;
  %common.attrib;
  %glossdiv.role.attrib;
  %local.glossdiv.attrib;
>
<!--end of glossdiv.attlist-->]]>
<!--end of glossdiv.module-->]]>
<!--end of glossary.content.module-->]]>
```

```
<!-- ..................................................................... -->
<!-- Index and SetIndex ................................................... -->

<!ENTITY % index.content.module "INCLUDE">
<![%index.content.module;[
<!ENTITY % indexes.module "INCLUDE">
<![%indexes.module;[
<!ENTITY % local.indexes.attrib "">
<!ENTITY % indexes.role.attrib "%role.attrib;">

<!ENTITY % index.element
 "INCLUDE">
<![%index.element;[
<!--doc:An index.-->
<!ELEMENT index %ho; (indexinfo?,
            (%bookcomponent.title.content;)?,
            (%component.mix;)*,
            (indexdiv* | indexentry*))
  %ndxterm.exclusion;>
<!--end of index.element-->]]>

<!ENTITY % index.attlist "INCLUDE">
<![%index.attlist;[
<!ATTLIST index
  type  CDATA  #IMPLIED
  %common.attrib;
  %indexes.role.attrib;
  %local.indexes.attrib;
>
<!--end of index.attlist-->]]>

<!ENTITY % setindex.element "INCLUDE">
<![%setindex.element;[
<!--doc:An index to a set of books.-->
<!ELEMENT setindex %ho; (setindexinfo?,
              (%bookcomponent.title.content;)?,
              (%component.mix;)*,
              (indexdiv* | indexentry*))
  %ndxterm.exclusion;>
<!--end of setindex.element-->]]>

<!ENTITY % setindex.attlist "INCLUDE">
<![%setindex.attlist;[
<!ATTLIST setindex
  %common.attrib;
  %indexes.role.attrib;
  %local.indexes.attrib;
>
```

```
<!--end of setindex.attlist-->]]>
<!--end
 of indexes.module-->]]>

<!ENTITY % indexdiv.module "INCLUDE">
<![%indexdiv.module;[

<!-- SegmentedList in this content is useful for marking up permuted
    indices. -->

<!ENTITY % local.indexdiv.attrib "">
<!ENTITY % indexdiv.role.attrib "%role.attrib;">

<!ENTITY % indexdiv.element "INCLUDE">
<![%indexdiv.element;[
<!--doc:A division in an index.-->
<!ELEMENT indexdiv %ho; ((%sect.title.content;)?, ((%indexdivcomponent.mix;)*,
  (indexentry+ | segmentedlist)))>
<!--end of indexdiv.element-->]]>

<!ENTITY % indexdiv.attlist "INCLUDE">
<![%indexdiv.attlist;[
<!ATTLIST indexdiv
  %common.attrib;
  %indexdiv.role.attrib;
  %local.indexdiv.attrib;
>
<!--end of indexdiv.attlist-->]]>
<!--end of indexdiv.module-->]]>

<!ENTITY % indexentry.module "INCLUDE">
<![%indexentry.module;[
<!-- Index entries appear in the index, not the text. -->

<!ENTITY % local.indexentry.attrib "">
<!ENTITY % indexentry.role.attrib "%role.attrib;">

<!ENTITY % indexentry.element "INCLUDE">
<![%indexentry.element;[
<!--doc:An
 entry in an index.-->
<!ELEMENT indexentry %ho; (primaryie, (seeie|seealsoie)*,
  (secondaryie, (seeie|seealsoie|tertiaryie)*)*)>
<!--end of indexentry.element-->]]>

<!ENTITY % indexentry.attlist "INCLUDE">
<![%indexentry.attlist;[
<!ATTLIST indexentry
```

```
 %common.attrib;
 %indexentry.role.attrib;
 %local.indexentry.attrib;
>
<!--end of indexentry.attlist-->]]>
<!--end of indexentry.module-->]]>

<!ENTITY % primsecterie.module "INCLUDE">
<![%primsecterie.module;[
<!ENTITY % local.primsecterie.attrib "">
<!ENTITY % primsecterie.role.attrib "%role.attrib;">

<!ENTITY % primaryie.element "INCLUDE">
<![%primaryie.element;[
<!--doc:A primary term in an index entry, not in the text.-->
<!ELEMENT primaryie %ho; (%ndxterm.char.mix;)*>
<!--end of primaryie.element-->]]>

<!-- to IndexTerms that these entries represent -->

<!ENTITY % primaryie.attlist "INCLUDE">
<![%primaryie.attlist;[
<!ATTLIST primaryie
 %linkends.attrib;  %common.attrib;
 %primsecterie.role.attrib;
 %local.primsecterie.attrib;
>
<!--end
 of primaryie.attlist-->]]>

<!ENTITY % secondaryie.element "INCLUDE">
<![%secondaryie.element;[
<!--doc:A secondary term in an index entry, rather than in the text.-->
<!ELEMENT secondaryie %ho; (%ndxterm.char.mix;)*>
<!--end of secondaryie.element-->]]>

<!-- to IndexTerms that these entries represent -->

<!ENTITY % secondaryie.attlist "INCLUDE">
<![%secondaryie.attlist;[
<!ATTLIST secondaryie
 %linkends.attrib;  %common.attrib;
 %primsecterie.role.attrib;
 %local.primsecterie.attrib;
>
<!--end of secondaryie.attlist-->]]>

<!ENTITY % tertiaryie.element "INCLUDE">
```

```
<![%tertiaryie.element;[
<!--doc:A tertiary term in an index entry, rather than in the text.-->
<!ELEMENT tertiaryie %ho; (%ndxterm.char.mix;)*>
<!--end of tertiaryie.element-->]]>

<!-- to IndexTerms that these entries represent -->

<!ENTITY % tertiaryie.attlist "INCLUDE">
<![%tertiaryie.attlist;[
<!ATTLIST tertiaryie
  %linkends.attrib;  %common.attrib;
  %primsecterie.role.attrib;
  %local.primsecterie.attrib;
>
<!--end
 of tertiaryie.attlist-->]]>

<!--end of primsecterie.module-->]]>

<!ENTITY % seeie.module "INCLUDE">
<![%seeie.module;[
<!ENTITY % local.seeie.attrib "">
<!ENTITY % seeie.role.attrib "%role.attrib;">

<!ENTITY % seeie.element "INCLUDE">
<![%seeie.element;[
<!--doc:A See entry in an index, rather than in the text.-->
<!ELEMENT seeie %ho; (%ndxterm.char.mix;)*>
<!--end of seeie.element-->]]>

<!-- to IndexEntry to look up -->


<!ENTITY % seeie.attlist "INCLUDE">
<![%seeie.attlist;[
<!ATTLIST seeie
  %linkend.attrib;  %common.attrib;
  %seeie.role.attrib;
  %local.seeie.attrib;
>
<!--end of seeie.attlist-->]]>
<!--end of seeie.module-->]]>

<!ENTITY % seealsoie.module "INCLUDE">
<![%seealsoie.module;[
<!ENTITY % local.seealsoie.attrib "">
<!ENTITY % seealsoie.role.attrib "%role.attrib;">
```

```
<!ENTITY % seealsoie.element "INCLUDE">
<![%seealsoie.element;[
<!--doc:A See also entry in an index, rather than in the text.-->
<!ELEMENT seealsoie %ho; (%ndxterm.char.mix;)*>
<!--end
 of seealsoie.element-->]]>

<!-- to related IndexEntries -->


<!ENTITY % seealsoie.attlist "INCLUDE">
<![%seealsoie.attlist;[
<!ATTLIST seealsoie
  %linkends.attrib;  %common.attrib;
  %seealsoie.role.attrib;
  %local.seealsoie.attrib;
>
<!--end of seealsoie.attlist-->]]>
<!--end of seealsoie.module-->]]>
<!--end of index.content.module-->]]>

<!-- ..... -->
<!-- RefEntry ..... -->

<!ENTITY % refentry.content.module "INCLUDE">
<![%refentry.content.module;[
<!ENTITY % refentry.module "INCLUDE">
<![%refentry.module;[
<!ENTITY % local.refentry.attrib "">
<!ENTITY % refentry.role.attrib "%role.attrib;">

<!ENTITY % refentry.element "INCLUDE">
<![%refentry.element;[
<!--doc:A reference page (originally a UNIX man-style reference page).-->
<!ELEMENT refentry %ho; (beginpage?,
                (%ndxterm.class;)*,
                refentryinfo?,
 refmeta?, (remark|%link.char.class;)*,
                refnamediv+, refsynopsisdiv?, (refsect1+|refsection+))
  %ubiq.inclusion;>
<!--end of refentry.element-->]]>

<!ENTITY % refentry.attlist "INCLUDE">
<![%refentry.attlist;[
<!ATTLIST refentry
  %status.attrib;
  %common.attrib;
  %refentry.role.attrib;
```

```
 %local.refentry.attrib;
>
<!--end of refentry.attlist-->]]>
<!--end of refentry.module-->]]>

<!ENTITY % refmeta.module "INCLUDE">
<![%refmeta.module;[
<!ENTITY % local.refmeta.attrib "">
<!ENTITY % refmeta.role.attrib "%role.attrib;">

<!ENTITY % refmeta.element "INCLUDE">
<![%refmeta.element;[
<!--doc:Meta-information for a reference entry.-->
<!ELEMENT refmeta %ho; ((%ndxterm.class;)*,
                refentrytitle, manvolnum?, refmiscinfo*,
                (%ndxterm.class;)*)
 %beginpage.exclusion;>
<!--end of refmeta.element-->]]>

<!ENTITY % refmeta.attlist "INCLUDE">
<![%refmeta.attlist;[
<!ATTLIST refmeta
 %common.attrib;
 %refmeta.role.attrib;
 %local.refmeta.attrib;
>
<!--end
 of refmeta.attlist-->]]>
<!--end of refmeta.module-->]]>

<!ENTITY % refmiscinfo.module "INCLUDE">
<![%refmiscinfo.module;[
<!ENTITY % local.refmiscinfo.attrib "">
<!ENTITY % refmiscinfo.role.attrib "%role.attrib;">

<!ENTITY % refmiscinfo.element "INCLUDE">
<![%refmiscinfo.element;[
<!--doc:Meta-information for a reference entry other than the title and volume number.-->
<!ELEMENT refmiscinfo %ho; (%docinfo.char.mix;)*>
<!--end of refmiscinfo.element-->]]>

<!-- Class: Freely assignable parameter; no default -->


<!ENTITY % refmiscinfo.attlist "INCLUDE">
<![%refmiscinfo.attlist;[
<!ATTLIST refmiscinfo
 class  CDATA  #IMPLIED
```

```
 %common.attrib;
 %refmiscinfo.role.attrib;
 %local.refmiscinfo.attrib;
>
<!--end of refmiscinfo.attlist-->]]>
<!--end of refmiscinfo.module-->]]>

<!ENTITY % refnamediv.module "INCLUDE">
<![%refnamediv.module;[
<!ENTITY % local.refnamediv.attrib "">
<!ENTITY % refnamediv.role.attrib "%role.attrib;">

<!ENTITY % refnamediv.element "INCLUDE">
<![%refnamediv.element;[
<!--doc:The
 name, purpose, and classification of a reference page.-->
<!ELEMENT refnamediv %ho; (refdescriptor?, refname+, refpurpose, refclass*,
 (remark|%link.char.class;)*)>
<!--end of refnamediv.element-->]]>

<!ENTITY % refnamediv.attlist "INCLUDE">
<![%refnamediv.attlist;[
<!ATTLIST refnamediv
 %common.attrib;
 %refnamediv.role.attrib;
 %local.refnamediv.attrib;
>
<!--end of refnamediv.attlist-->]]>
<!--end of refnamediv.module-->]]>

<!ENTITY % refdescriptor.module "INCLUDE">
<![%refdescriptor.module;[
<!ENTITY % local.refdescriptor.attrib "">
<!ENTITY % refdescriptor.role.attrib "%role.attrib;">

<!ENTITY % refdescriptor.element "INCLUDE">
<![%refdescriptor.element;[
<!--doc:A description of the topic of a reference page.-->
<!ELEMENT refdescriptor %ho; (%refname.char.mix;)*>
<!--end of refdescriptor.element-->]]>

<!ENTITY % refdescriptor.attlist "INCLUDE">
<![%refdescriptor.attlist;[
<!ATTLIST refdescriptor
 %common.attrib;
 %refdescriptor.role.attrib;
 %local.refdescriptor.attrib;
>
```

```
<!--end
 of refdescriptor.attlist-->]]>
<!--end of refdescriptor.module-->]]>

<!ENTITY % refname.module "INCLUDE">
<![%refname.module;[
<!ENTITY % local.refname.attrib "">
<!ENTITY % refname.role.attrib "%role.attrib;">

<!ENTITY % refname.element "INCLUDE">
<![%refname.element;[
<!--doc:The name of (one of) the subject(s) of a reference page.-->
<!ELEMENT refname %ho; (%refname.char.mix;)*>
<!--end of refname.element-->]]>

<!ENTITY % refname.attlist "INCLUDE">
<![%refname.attlist;[
<!ATTLIST refname
  %common.attrib;
  %refname.role.attrib;
  %local.refname.attrib;
>
<!--end of refname.attlist-->]]>
<!--end of refname.module-->]]>

<!ENTITY % refpurpose.module "INCLUDE">
<![%refpurpose.module;[
<!ENTITY % local.refpurpose.attrib "">
<!ENTITY % refpurpose.role.attrib "%role.attrib;">

<!ENTITY % refpurpose.element "INCLUDE">
<![%refpurpose.element;[
<!--doc:A short (one sentence) synopsis of the topic of a reference page.-->
<!ELEMENT
 refpurpose %ho; (%refinline.char.mix;)*>
<!--end of refpurpose.element-->]]>

<!ENTITY % refpurpose.attlist "INCLUDE">
<![%refpurpose.attlist;[
<!ATTLIST refpurpose
  %common.attrib;
  %refpurpose.role.attrib;
  %local.refpurpose.attrib;
>
<!--end of refpurpose.attlist-->]]>
<!--end of refpurpose.module-->]]>

<!ENTITY % refclass.module "INCLUDE">
```

```
<![%refclass.module;[
<!ENTITY % local.refclass.attrib "">
<!ENTITY % refclass.role.attrib "%role.attrib;">

<!ENTITY % refclass.element "INCLUDE">
<![%refclass.element;[
<!--doc:The scope or other indication of applicability of a reference entry.-->
<!ELEMENT refclass %ho; (%refclass.char.mix;)*>
<!--end of refclass.element-->]]>

<!ENTITY % refclass.attlist "INCLUDE">
<![%refclass.attlist;[
<!ATTLIST refclass
  %common.attrib;
  %refclass.role.attrib;
  %local.refclass.attrib;
>
<!--end of refclass.attlist-->]]>
<!--end of refclass.module-->]]>

<!ENTITY % refsynopsisdiv.module "INCLUDE">
<![%refsynopsisdiv.module;[
<!ENTITY % local.refsynopsisdiv.attrib
 "">
<!ENTITY % refsynopsisdiv.role.attrib "%role.attrib;">

<!ENTITY % refsynopsisdiv.element "INCLUDE">
<![%refsynopsisdiv.element;[
<!--doc:A syntactic synopsis of the subject of the reference page.-->
<!ELEMENT refsynopsisdiv %ho; (refsynopsisdivinfo?, (%refsect.title.content;)?,
  (((%refcomponent.mix;)+, refsect2*) | (refsect2+)))>
<!--end of refsynopsisdiv.element-->]]>

<!ENTITY % refsynopsisdiv.attlist "INCLUDE">
<![%refsynopsisdiv.attlist;[
<!ATTLIST refsynopsisdiv
  %common.attrib;
  %refsynopsisdiv.role.attrib;
  %local.refsynopsisdiv.attrib;
>
<!--end of refsynopsisdiv.attlist-->]]>
<!--end of refsynopsisdiv.module-->]]>

<!ENTITY % refsection.module "INCLUDE">
<![%refsection.module;[
<!ENTITY % local.refsection.attrib "">
<!ENTITY % refsection.role.attrib "%role.attrib;">
```

```
<!ENTITY % refsection.element "INCLUDE">
<![%refsection.element;[
<!--doc:A recursive section in a refentry.-->
<!ELEMENT refsection %ho; (refsectioninfo?, (%refsect.title.content;),
  (((%refcomponent.mix;)+,
 refsection*) | refsection+))>
<!--end of refsection.element-->]]>

<!ENTITY % refsection.attlist "INCLUDE">
<![%refsection.attlist;[
<!ATTLIST refsection
  %status.attrib;
  %common.attrib;
  %refsection.role.attrib;
  %local.refsection.attrib;
>
<!--end of refsection.attlist-->]]>
<!--end of refsection.module-->]]>

<!ENTITY % refsect1.module "INCLUDE">
<![%refsect1.module;[
<!ENTITY % local.refsect1.attrib "">
<!ENTITY % refsect1.role.attrib "%role.attrib;">

<!ENTITY % refsect1.element "INCLUDE">
<![%refsect1.element;[
<!--doc:A major subsection of a reference entry.-->
<!ELEMENT refsect1 %ho; (refsect1info?, (%refsect.title.content;),
  (((%refcomponent.mix;)+, refsect2*) | refsect2+))>
<!--end of refsect1.element-->]]>

<!ENTITY % refsect1.attlist "INCLUDE">
<![%refsect1.attlist;[
<!ATTLIST refsect1
  %status.attrib;
  %common.attrib;
  %refsect1.role.attrib;
  %local.refsect1.attrib;
>
<!--end of refsect1.attlist-->]]>
<!--end of refsect1.module-->]]>

<!ENTITY
 % refsect2.module "INCLUDE">
<![%refsect2.module;[
<!ENTITY % local.refsect2.attrib "">
<!ENTITY % refsect2.role.attrib "%role.attrib;">
```

```
<!ENTITY % refsect2.element "INCLUDE">
<![%refsect2.element;[
<!--doc:A subsection of a RefSect1.-->
<!ELEMENT refsect2 %ho; (refsect2info?, (%refsect.title.content;),
 (((%refcomponent.mix;)+, refsect3*) | refsect3+))>
<!--end of refsect2.element-->]]>

<!ENTITY % refsect2.attlist "INCLUDE">
<![%refsect2.attlist;[
<!ATTLIST refsect2
  %status.attrib;
  %common.attrib;
  %refsect2.role.attrib;
  %local.refsect2.attrib;
>
<!--end of refsect2.attlist-->]]>
<!--end of refsect2.module-->]]>

<!ENTITY % refsect3.module "INCLUDE">
<![%refsect3.module;[
<!ENTITY % local.refsect3.attrib "">
<!ENTITY % refsect3.role.attrib "%role.attrib;">

<!ENTITY % refsect3.element "INCLUDE">
<![%refsect3.element;[
<!--doc:A subsection of a RefSect2.-->
<!ELEMENT refsect3 %ho; (refsect3info?, (%refsect.title.content;),
 (%refcomponent.mix;)+)>
<!--end of refsect3.element-->]]>

<!ENTITY
 % refsect3.attlist "INCLUDE">
<![%refsect3.attlist;[
<!ATTLIST refsect3
  %status.attrib;
  %common.attrib;
  %refsect3.role.attrib;
  %local.refsect3.attrib;
>
<!--end of refsect3.attlist-->]]>
<!--end of refsect3.module-->]]>
<!--end of refentry.content.module-->]]>

<!-- ..... -->
<!-- Article ..... -->

<!ENTITY % article.module "INCLUDE">
<![%article.module;[
```

```
<!-- An Article is a chapter-level, stand-alone document that is often,
   but need not be, collected into a Book. -->

<!ENTITY % local.article.attrib "">
<!ENTITY % article.role.attrib "%role.attrib;">

<!ENTITY % article.element "INCLUDE">
<![%article.element;[
<!--doc:An article.-->
<!ELEMENT article %ho; ((%div.title.content;)?, articleinfo?, tocchap?, lot*,
  (%bookcomponent.content;),
  (%nav.class;|%appendix.class;|colophon|ackno)*)
 %ubiq.inclusion;>
<!--end of article.element-->]]>

<!--
 Class: Indicates the type of a particular article;
  all articles have the same structure and general purpose.
  No default. -->
<!-- ParentBook: ID of the enclosing Book -->


<!ENTITY % article.attlist "INCLUDE">
<![%article.attlist;[
<!ATTLIST article
  class  (journalarticle
    |productsheet
    |whitepaper
    |techreport
                        |specification
    |faq)  #IMPLIED
  parentbook IDREF  #IMPLIED
  %status.attrib;
  %common.attrib;
  %article.role.attrib;
  %local.article.attrib;
>
<!--end of article.attlist-->]]>
<!--end of article.module-->]]>

<!-- End of DocBook document hierarchy module V4.5 ..... -->
<!-- ..... -->
```

Found in path(s):
* /docbook-xml-4-5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-4.5/dbhierx.mod
No license file was found, but licenses were detected in source scan.

```
<!-- ..... -->
```

```
<!-- DocBook XML notations module V4.1.2 ..................................... -->
<!-- File dbnotnx.mod ........................................................ -->

<!-- Copyright 1992-2000 HaL Computer Systems, Inc.,
   O'Reilly & Associates, Inc., ArborText, Inc., Fujitsu Software
   Corporation, Norman Walsh, and the Organization for the Advancement
   of Structured Information Standards (OASIS).

   $Id: dbnotnx.mod,v 1.10 2000/08/27 15:12:42 nwalsh Exp $

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   referencing additional sets of general entities and declaring
   additional notations, label your DTD as a variant of DocBook.  See
   the maintenance documentation for more information.

   Please direct all questions, bug reports, or suggestions for
   changes to the docbook@lists.oasis-open.org mailing list. For more
   information, see http://www.oasis-open.org/docbook/.
-->

<!-- ........................................................................ -->

<!-- This module contains the entity declarations for the standard ISO
   entity sets used by DocBook.

   In DTD driver files referring to this module, please use an entity
   declaration that uses the public identifier shown below:

   <!ENTITY % dbnotn PUBLIC
   "-//OASIS//ENTITIES DocBook XML Notations V4.1.2//EN"
   "dbnotnx.mod">
   %dbnotn;

   See the documentation
 for detailed information on the parameter
   entity and module scheme used in DocBook, customizing DocBook and
   planning for interchange, and changes made since the last release
   of DocBook.
-->
```

```
<!ENTITY % local.notation.class "">
<!ENTITY % notation.class
  "BMP| CGM-CHAR | CGM-BINARY | CGM-CLEAR | DITROFF | DVI
  | EPS | EQN | FAX | GIF | GIF87a | GIF89a
  | JPG | JPEG | IGES | PCX
  | PIC | PNG | PS | SGML | TBL | TEX | TIFF | WMF | WPG
  | linespecific
  %local.notation.class;">

<!NOTATION BMP  PUBLIC
"+//ISBN 0-7923-9432-1::Graphic Notation//NOTATION Microsoft Windows bitmap//EN">
<!NOTATION CGM-CHAR PUBLIC "ISO 8632/2//NOTATION Character encoding//EN">
<!NOTATION CGM-BINARY PUBLIC "ISO 8632/3//NOTATION Binary encoding//EN">
<!NOTATION CGM-CLEAR PUBLIC "ISO 8632/4//NOTATION Clear text encoding//EN">
<!NOTATION DITROFF SYSTEM "DITROFF">
<!NOTATION DVI  SYSTEM "DVI">
<!NOTATION EPS  PUBLIC
"+//ISBN 0-201-18127-4::Adobe//NOTATION PostScript Language Ref. Manual//EN">
<!NOTATION
 EQN  SYSTEM "EQN">
<!NOTATION FAX  PUBLIC
"-//USA-DOD//NOTATION CCITT Group 4 Facsimile Type 1 Untiled Raster//EN">
<!NOTATION GIF  SYSTEM "GIF">
<!NOTATION GIF87a             PUBLIC
"-//CompuServe//NOTATION Graphics Interchange Format 87a//EN">

<!NOTATION GIF89a             PUBLIC
"-//CompuServe//NOTATION Graphics Interchange Format 89a//EN">
<!NOTATION JPG  SYSTEM "JPG">
<!NOTATION JPEG  SYSTEM "JPG">
<!NOTATION IGES  PUBLIC
"-//USA-DOD//NOTATION (ASME/ANSI Y14.26M-1987) Initial Graphics Exchange Specification//EN">
<!NOTATION PCX  PUBLIC
"+//ISBN 0-7923-9432-1::Graphic Notation//NOTATION ZSoft PCX bitmap//EN">
<!NOTATION PIC  SYSTEM "PIC">
<!NOTATION PNG         SYSTEM "http://www.w3.org/TR/REC-png">
<!NOTATION PS  SYSTEM "PS">
<!NOTATION SGML  PUBLIC
"ISO 8879:1986//NOTATION Standard Generalized Markup Language//EN">
<!NOTATION TBL  SYSTEM "TBL">
<!NOTATION TEX  PUBLIC
"+//ISBN 0-201-13448-9::Knuth//NOTATION The TeXbook//EN">
<!NOTATION TIFF  SYSTEM "TIFF">
<!NOTATION
 WMF  PUBLIC
"+//ISBN 0-7923-9432-1::Graphic Notation//NOTATION Microsoft Windows Metafile//EN">
<!NOTATION WPG  SYSTEM "WPG"> <!--WordPerfect Graphic format-->
```

<!NOTATION linespecific SYSTEM "linespecific">

<!-- End of DocBook XML notations module V4.1.2 ..... -->
<!-- ..... -->

Found in path(s):
* /docbook-xml-4-5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-4.1.2/dbnotnx.mod
No license file was found, but licenses were detected in source scan.

<!-- ..... -->
<!-- DocBook document hierarchy module V4.4 ..... -->
<!-- File dbhierx.mod ..... -->

<!-- Copyright 1992-2004 HaL Computer Systems, Inc.,
   O'Reilly & Associates, Inc., ArborText, Inc., Fujitsu Software
   Corporation, Norman Walsh, Sun Microsystems, Inc., and the
   Organization for the Advancement of Structured Information
   Standards (OASIS).

   $Id: dbhierx.mod,v 1.38 2005/01/27 13:52:00 nwalsh Exp $

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   warranty.

   If you modify the DocBook DTD in any way, except for declaring and
   referencing additional sets of general entities and declaring
   additional notations, label your DTD as a variant of DocBook. See
   the maintenance documentation for more information.

   Please direct all questions, bug reports, or suggestions for
   changes to the docbook@lists.oasis-open.org mailing list. For more
   information, see http://www.oasis-open.org/docbook/.
-->

<!-- ..... -->

<!-- This module contains the definitions for the overall document
   hierarchies of DocBook documents. It covers computer documentation
   manuals and manual fragments, as well as reference entries (such as
   man pages) and technical journals or anthologies containing
   articles.

   This module depends on the DocBook information pool module. All

```
    elements and entities referenced but not defined here are assumed
    to be defined in the information pool module.

    In DTD driver files referring to this module, please use an entity
    declaration that uses the public identifier shown below:

    <!ENTITY % dbhier PUBLIC
    "-//OASIS//ELEMENTS DocBook Document Hierarchy V4.4//EN"
    "dbhierx.mod">
    %dbhier;

    See the documentation for detailed information on the parameter
    entity and module scheme used in DocBook, customizing DocBook and
    planning for interchange, and changes made since the last release
    of DocBook.
-->

<!-- ..................................................................... -->
<!-- Entities for module inclusions ....................................... -->

<!ENTITY % dbhier.redecl.module  "IGNORE">
<!ENTITY % dbhier.redecl2.module "IGNORE">

<!-- ..................................................................... -->
<!-- Entities for element classes .....................................
 -->

<!ENTITY % local.appendix.class "">
<!ENTITY % appendix.class "appendix %local.appendix.class;">

<!ENTITY % local.article.class "">
<!ENTITY % article.class "article %local.article.class;">

<!ENTITY % local.book.class "">
<!ENTITY % book.class  "book %local.book.class;">

<!ENTITY % local.chapter.class "">
<!ENTITY % chapter.class "chapter %local.chapter.class;">

<!ENTITY % local.index.class "">
<!ENTITY % index.class  "index|setindex %local.index.class;">

<!ENTITY % local.refentry.class "">
<!ENTITY % refentry.class "refentry %local.refentry.class;">

<!ENTITY % local.section.class "">
<!ENTITY % section.class "section %local.section.class;">
```

```
<!ENTITY % local.nav.class "">
<!ENTITY % nav.class  "toc|lot|index|glossary|bibliography
   %local.nav.class;">

<!-- Redeclaration placeholder ..... -->

<!-- For redeclaring entities that are declared after this point while
   retaining their references to the entities
 that are declared before
   this point -->

<![%dbhier.redecl.module;[
<!-- Defining rdbhier here makes some buggy XML parsers happy. -->
<!ENTITY % rdbhier "">
%rdbhier;
<!--end of dbhier.redecl.module-->]]>

<!-- ..... -->
<!-- Entities for element mixtures ..... -->

<!ENTITY % local.divcomponent.mix "">
<!ENTITY % divcomponent.mix
  "%list.class;  |%admon.class;
  |%linespecific.class; |%synop.class;
  |%para.class;  |%informal.class;
  |%formal.class;  |%compound.class;
  |%genobj.class;  |%descobj.class;
  |%ndxterm.class;       |beginpage
            %forms.hook;
  %local.divcomponent.mix;">

<!ENTITY % local.refcomponent.mix "">
<!ENTITY % refcomponent.mix
  "%list.class;  |%admon.class;
  |%linespecific.class; |%synop.class;
  |%para.class;  |%informal.class;
  |%formal.class;  |%compound.class;
  |%genobj.class;  |%descobj.class;
  |%ndxterm.class;       |beginpage
  %forms.hook;
             %local.refcomponent.mix;">

<!ENTITY % local.indexdivcomponent.mix "">
<!ENTITY % indexdivcomponent.mix
  "itemizedlist|orderedlist|variablelist|simplelist
  |%linespecific.class; |%synop.class;
  |%para.class;  |%informal.class;
  |anchor|remark
```

```
 |%link.char.class;
                    |beginpage
 %local.indexdivcomponent.mix;">

<!ENTITY % local.refname.char.mix "">
<!ENTITY % refname.char.mix
 "#PCDATA
 |%tech.char.class;
 %local.refname.char.mix;">

<!ENTITY % local.partcontent.mix "">
<!ENTITY % partcontent.mix
 "%appendix.class;|%chapter.class;|%nav.class;|%article.class;
 |preface|%refentry.class;|reference %local.partcontent.mix;">

<!ENTITY % local.refinline.char.mix "">
<!ENTITY % refinline.char.mix
 "#PCDATA
 |%xref.char.class; |%gen.char.class;
 |%link.char.class; |%tech.char.class;
 |%base.char.class; |%docinfo.char.class;
 |%other.char.class;
 |%ndxterm.class;       |beginpage
 %local.refinline.char.mix;">

<!ENTITY % local.refclass.char.mix
 "">
<!ENTITY % refclass.char.mix
 "#PCDATA
 |application
 %local.refclass.char.mix;">

<!-- Redeclaration placeholder 2 ..................................... -->

<!-- For redeclaring entities that are declared after this point while
   retaining their references to the entities that are declared before
   this point -->

<![%dbhier.redecl2.module;[
<!-- Defining rdbhier2 here makes some buggy XML parsers happy. -->
<!ENTITY % rdbhier2 "">
%rdbhier2;
<!--end of dbhier.redecl2.module-->]]>

<!-- ..................................................................... -->
<!-- Entities for content models ..................................... -->

<!ENTITY % div.title.content
```

```
 "title, subtitle?, titleabbrev?">

<!ENTITY % bookcomponent.title.content
 "title, subtitle?, titleabbrev?">

<!ENTITY % sect.title.content
 "title, subtitle?, titleabbrev?">

<!ENTITY % refsect.title.content
 "title, subtitle?, titleabbrev?">

<!ENTITY % bookcomponent.content
 "((%divcomponent.mix;)+,
 (sect1*|(%refentry.class;)*|simplesect*|(%section.class;)*))
 |
 (sect1+|(%refentry.class;)+|simplesect+|(%section.class;)+)">

<!-- ..... -->
<!-- Set and SetInfo ..... -->

<!ENTITY % set.content.module "INCLUDE">
<![%set.content.module;[
<!ENTITY % set.module "INCLUDE">
<![%set.module;[
<!ENTITY % local.set.attrib "">
<!ENTITY % set.role.attrib "%role.attrib;">

<!ENTITY % set.element "INCLUDE">
<![%set.element;[
<!ELEMENT set %ho; ((%div.title.content;)?, setinfo?, toc?, (set|%book.class;)+,
  setindex?)
  %ubiq.inclusion;>
<!--end of set.element-->]]>

<!-- FPI: SGML formal public identifier -->


<!ENTITY % set.attlist "INCLUDE">
<![%set.attlist;[
<!ATTLIST set
  fpi  CDATA  #IMPLIED
  %status.attrib;
  %common.attrib;
  %set.role.attrib;
  %local.set.attrib;
>
<!--end of set.attlist-->]]>
<!--end of set.module-->]]>
```

```
<!ENTITY % setinfo.module "INCLUDE">
<![%setinfo.module;[
<!ENTITY
 % local.setinfo.attrib "">
<!ENTITY % setinfo.role.attrib "%role.attrib;">

<!ENTITY % setinfo.element "INCLUDE">
<![%setinfo.element;[
<!ELEMENT setinfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of setinfo.element-->]]>

<!-- Contents: IDs of the ToC, Books, and SetIndex that comprise
  the set, in the order of their appearance -->


<!ENTITY % setinfo.attlist "INCLUDE">
<![%setinfo.attlist;[
<!ATTLIST setinfo
  contents IDREFS  #IMPLIED
  %common.attrib;
  %setinfo.role.attrib;
  %local.setinfo.attrib;
>
<!--end of setinfo.attlist-->]]>
<!--end of setinfo.module-->]]>
<!--end of set.content.module-->]]>

<!-- ..... -->
<!-- Book and BookInfo ..... -->

<!ENTITY % book.content.module "INCLUDE">
<![%book.content.module;[
<!ENTITY % book.module "INCLUDE">
<![%book.module;[

<!ENTITY % local.book.attrib "">
<!ENTITY % book.role.attrib
 "%role.attrib;">

<!ENTITY % book.element "INCLUDE">
<![%book.element;[
<!ELEMENT book %ho; ((%div.title.content;)?, bookinfo?,
  (dedication | toc | lot
  | glossary | bibliography | preface
  | %chapter.class; | reference | part
  | %article.class;
```

```
 | %appendix.class;
 | %index.class;
 | colophon)*)
 %ubiq.inclusion;>
<!--end of book.element-->]]>

<!-- FPI: SGML formal public identifier -->


<!ENTITY % book.attlist "INCLUDE">
<![%book.attlist;[
<!ATTLIST book  fpi  CDATA  #IMPLIED
 %label.attrib;
 %status.attrib;
 %common.attrib;
 %book.role.attrib;
 %local.book.attrib;
>
<!--end of book.attlist-->]]>
<!--end of book.module-->]]>

<!ENTITY % bookinfo.module "INCLUDE">
<![%bookinfo.module;[
<!ENTITY % local.bookinfo.attrib "">
<!ENTITY % bookinfo.role.attrib "%role.attrib;">

<!ENTITY % bookinfo.element "INCLUDE">
<![%bookinfo.element;[
<!ELEMENT bookinfo %ho; ((%info.class;)+)
 %beginpage.exclusion;>
<!--end of bookinfo.element-->]]>

<!-- Contents: IDs of the
 ToC, LoTs, Prefaces, Parts, Chapters,
  Appendixes, References, GLossary, Bibliography, and indexes
  comprising the Book, in the order of their appearance -->


<!ENTITY % bookinfo.attlist "INCLUDE">
<![%bookinfo.attlist;[
<!ATTLIST bookinfo
 contents IDREFS  #IMPLIED
 %common.attrib;
 %bookinfo.role.attrib;
 %local.bookinfo.attrib;
>
<!--end of bookinfo.attlist-->]]>
<!--end of bookinfo.module-->]]>
```

```
<!--end of book.content.module-->]]>

<!-- ..................................................................... -->
<!-- Dedication, ToC, and LoT ..... -->

<!ENTITY % dedication.module "INCLUDE">
<![%dedication.module;[
<!ENTITY % local.dedication.attrib "">
<!ENTITY % dedication.role.attrib "%role.attrib;">

<!ENTITY % dedication.element "INCLUDE">
<![%dedication.element;[
<!ELEMENT dedication %ho; ((%sect.title.content;)?, (%legalnotice.mix;)+)>
<!--end of dedication.element-->]]>

<!ENTITY % dedication.attlist "INCLUDE">
<![%dedication.attlist;[
<!ATTLIST
 dedication
  %status.attrib;
  %common.attrib;
  %dedication.role.attrib;
  %local.dedication.attrib;
>
<!--end of dedication.attlist-->]]>
<!--end of dedication.module-->]]>

<!ENTITY % colophon.module "INCLUDE">
<![ %colophon.module; [
<!ENTITY % local.colophon.attrib "">
<!ENTITY % colophon.role.attrib "%role.attrib;">

<!ENTITY % colophon.element "INCLUDE">
<![ %colophon.element; [
<!ELEMENT colophon %ho; ((%sect.title.content;)?, (%textobject.mix;)+)>
<!--end of colophon.element-->]]>

<!ENTITY % colophon.attlist "INCLUDE">
<![ %colophon.attlist; [
<!ATTLIST colophon
  %status.attrib;
  %common.attrib;
  %colophon.role.attrib;
  %local.colophon.attrib;>
<!--end of colophon.attlist-->]]>
<!--end of colophon.module-->]]>

<!ENTITY % toc.content.module "INCLUDE">
```

```
<![%toc.content.module;[
<!ENTITY % toc.module "INCLUDE">
<![%toc.module;[
<!ENTITY % local.toc.attrib "">
<!ENTITY % toc.role.attrib "%role.attrib;">

<!ENTITY % toc.element "INCLUDE">
<![%toc.element;[
<!ELEMENT
 toc %ho; (beginpage?,
  (%bookcomponent.title.content;)?,
  tocfront*,
  (tocpart | tocchap)*, tocback*)>
<!--end of toc.element-->]]>

<!ENTITY % toc.attlist "INCLUDE">
<![%toc.attlist;[
<!ATTLIST toc
  %pagenum.attrib;
  %common.attrib;
  %toc.role.attrib;
  %local.toc.attrib;
>
<!--end of toc.attlist-->]]>
<!--end of toc.module-->]]>

<!ENTITY % tocfront.module "INCLUDE">
<![%tocfront.module;[
<!ENTITY % local.tocfront.attrib "">
<!ENTITY % tocfront.role.attrib "%role.attrib;">

<!ENTITY % tocfront.element "INCLUDE">
<![%tocfront.element;[
<!ELEMENT tocfront %ho; (%para.char.mix;)*>
<!--end of tocfront.element-->]]>

<!-- to element that this entry represents -->


<!ENTITY % tocfront.attlist "INCLUDE">
<![%tocfront.attlist;[
<!ATTLIST tocfront
  %label.attrib;
  %linkend.attrib;  %pagenum.attrib;
  %common.attrib;
  %tocfront.role.attrib;
  %local.tocfront.attrib;
>
```

```
<!--end of tocfront.attlist-->]]>
<!--end of tocfront.module-->]]>

<!ENTITY % tocentry.module "INCLUDE">
<![%tocentry.module;[
<!ENTITY
 % local.tocentry.attrib "">
<!ENTITY % tocentry.role.attrib "%role.attrib;">

<!ENTITY % tocentry.element "INCLUDE">
<![%tocentry.element;[
<!ELEMENT tocentry %ho; (%para.char.mix;)*>
<!--end of tocentry.element-->]]>

<!-- to element that this entry represents -->


<!ENTITY % tocentry.attlist "INCLUDE">
<![%tocentry.attlist;[
<!ATTLIST tocentry
  %linkend.attrib;  %pagenum.attrib;
  %common.attrib;
  %tocentry.role.attrib;
  %local.tocentry.attrib;
>
<!--end of tocentry.attlist-->]]>
<!--end of tocentry.module-->]]>

<!ENTITY % tocpart.module "INCLUDE">
<![%tocpart.module;[
<!ENTITY % local.tocpart.attrib "">
<!ENTITY % tocpart.role.attrib "%role.attrib;">

<!ENTITY % tocpart.element "INCLUDE">
<![%tocpart.element;[
<!ELEMENT tocpart %ho; (tocentry+, tocchap*)>
<!--end of tocpart.element-->]]>

<!ENTITY % tocpart.attlist "INCLUDE">
<![%tocpart.attlist;[
<!ATTLIST tocpart
  %common.attrib;
  %tocpart.role.attrib;
  %local.tocpart.attrib;
>
<!--end of tocpart.attlist-->]]>
<!--end
```

```
 of tocpart.module-->]]>

<!ENTITY % tocchap.module "INCLUDE">
<![%tocchap.module;[
<!ENTITY % local.tocchap.attrib "">
<!ENTITY % tocchap.role.attrib "%role.attrib;">

<!ENTITY % tocchap.element "INCLUDE">
<![%tocchap.element;[
<!ELEMENT tocchap %ho; (tocentry+, toclevel1*)>
<!--end of tocchap.element-->]]>

<!ENTITY % tocchap.attlist "INCLUDE">
<![%tocchap.attlist;[
<!ATTLIST tocchap
  %label.attrib;
  %common.attrib;
  %tocchap.role.attrib;
  %local.tocchap.attrib;
>
<!--end of tocchap.attlist-->]]>
<!--end of tocchap.module-->]]>

<!ENTITY % toclevel1.module "INCLUDE">
<![%toclevel1.module;[
<!ENTITY % local.toclevel1.attrib "">
<!ENTITY % toclevel1.role.attrib "%role.attrib;">

<!ENTITY % toclevel1.element "INCLUDE">
<![%toclevel1.element;[
<!ELEMENT toclevel1 %ho; (tocentry+, toclevel2*)>
<!--end of toclevel1.element-->]]>

<!ENTITY % toclevel1.attlist "INCLUDE">
<![%toclevel1.attlist;[
<!ATTLIST toclevel1
  %common.attrib;
  %toclevel1.role.attrib;
  %local.toclevel1.attrib;
>
<!--end
 of toclevel1.attlist-->]]>
<!--end of toclevel1.module-->]]>

<!ENTITY % toclevel2.module "INCLUDE">
<![%toclevel2.module;[
<!ENTITY % local.toclevel2.attrib "">
<!ENTITY % toclevel2.role.attrib "%role.attrib;">
```

```
<!ENTITY % toclevel2.element "INCLUDE">
<![%toclevel2.element;[
<!ELEMENT toclevel2 %ho; (tocentry+, toclevel3*)>
<!--end of toclevel2.element-->]]>

<!ENTITY % toclevel2.attlist "INCLUDE">
<![%toclevel2.attlist;[
<!ATTLIST toclevel2
  %common.attrib;
  %toclevel2.role.attrib;
  %local.toclevel2.attrib;
>
<!--end of toclevel2.attlist-->]]>
<!--end of toclevel2.module-->]]>

<!ENTITY % toclevel3.module "INCLUDE">
<![%toclevel3.module;[
<!ENTITY % local.toclevel3.attrib "">
<!ENTITY % toclevel3.role.attrib "%role.attrib;">

<!ENTITY % toclevel3.element "INCLUDE">
<![%toclevel3.element;[
<!ELEMENT toclevel3 %ho; (tocentry+, toclevel4*)>
<!--end of toclevel3.element-->]]>

<!ENTITY % toclevel3.attlist "INCLUDE">
<![%toclevel3.attlist;[
<!ATTLIST toclevel3
  %common.attrib;
  %toclevel3.role.attrib;
  %local.toclevel3.attrib;
>
<!--end
 of toclevel3.attlist-->]]>
<!--end of toclevel3.module-->]]>

<!ENTITY % toclevel4.module "INCLUDE">
<![%toclevel4.module;[
<!ENTITY % local.toclevel4.attrib "">
<!ENTITY % toclevel4.role.attrib "%role.attrib;">

<!ENTITY % toclevel4.element "INCLUDE">
<![%toclevel4.element;[
<!ELEMENT toclevel4 %ho; (tocentry+, toclevel5*)>
<!--end of toclevel4.element-->]]>

<!ENTITY % toclevel4.attlist "INCLUDE">
```

```
<![%toclevel4.attlist;[
<!ATTLIST toclevel4
  %common.attrib;
  %toclevel4.role.attrib;
  %local.toclevel4.attrib;
>
<!--end of toclevel4.attlist-->]]>
<!--end of toclevel4.module-->]]>

<!ENTITY % toclevel5.module "INCLUDE">
<![%toclevel5.module;[
<!ENTITY % local.toclevel5.attrib "">
<!ENTITY % toclevel5.role.attrib "%role.attrib;">

<!ENTITY % toclevel5.element "INCLUDE">
<![%toclevel5.element;[
<!ELEMENT toclevel5 %ho; (tocentry+)>
<!--end of toclevel5.element-->]]>

<!ENTITY % toclevel5.attlist "INCLUDE">
<![%toclevel5.attlist;[
<!ATTLIST
 toclevel5
  %common.attrib;
  %toclevel5.role.attrib;
  %local.toclevel5.attrib;
>
<!--end of toclevel5.attlist-->]]>
<!--end of toclevel5.module-->]]>

<!ENTITY % tocback.module "INCLUDE">
<![%tocback.module;[
<!ENTITY % local.tocback.attrib "">
<!ENTITY % tocback.role.attrib "%role.attrib;">

<!ENTITY % tocback.element "INCLUDE">
<![%tocback.element;[
<!ELEMENT tocback %ho; (%para.char.mix;)*>
<!--end of tocback.element-->]]>

<!-- to element that this entry represents -->


<!ENTITY % tocback.attlist "INCLUDE">
<![%tocback.attlist;[
<!ATTLIST tocback
  %label.attrib;
  %linkend.attrib;  %pagenum.attrib;
```

```
  %common.attrib;
  %tocback.role.attrib;
  %local.tocback.attrib;
>
<!--end of tocback.attlist-->]]>
<!--end of tocback.module-->]]>
<!--end of toc.content.module-->]]>

<!ENTITY % lot.content.module "INCLUDE">
<![%lot.content.module;[
<!ENTITY % lot.module "INCLUDE">
<![%lot.module;[
<!ENTITY % local.lot.attrib "">
<!ENTITY % lot.role.attrib
 "%role.attrib;">

<!ENTITY % lot.element "INCLUDE">
<![%lot.element;[
<!ELEMENT lot %ho; (beginpage?, (%bookcomponent.title.content;)?, lotentry*)>
<!--end of lot.element-->]]>

<!ENTITY % lot.attlist "INCLUDE">
<![%lot.attlist;[
<!ATTLIST lot
  %label.attrib;
  %common.attrib;
  %lot.role.attrib;
  %local.lot.attrib;
>
<!--end of lot.attlist-->]]>
<!--end of lot.module-->]]>

<!ENTITY % lotentry.module "INCLUDE">
<![%lotentry.module;[
<!ENTITY % local.lotentry.attrib "">
<!ENTITY % lotentry.role.attrib "%role.attrib;">

<!ENTITY % lotentry.element "INCLUDE">
<![%lotentry.element;[
<!ELEMENT lotentry %ho; (%para.char.mix;)*>
<!--end of lotentry.element-->]]>

<!-- SrcCredit: Information about the source of the entry,
  as for a list of illustrations -->
<!-- linkend: to element that this entry represents-->
<!ENTITY % lotentry.attlist "INCLUDE">
<![%lotentry.attlist;[
<!ATTLIST lotentry
```

```
 %linkend.attrib;
 %pagenum.attrib;
 srccredit CDATA  #IMPLIED
 %common.attrib;
 %lotentry.role.attrib;
 %local.lotentry.attrib;
>
<!--end
 of lotentry.attlist-->]]>
<!--end of lotentry.module-->]]>
<!--end of lot.content.module-->]]>

<!-- ..................................................................... -->
<!-- Appendix, Chapter, Part, Preface, Reference, PartIntro ..... -->

<!ENTITY % appendix.module "INCLUDE">
<![%appendix.module;[
<!ENTITY % local.appendix.attrib "">
<!ENTITY % appendix.role.attrib "%role.attrib;">

<!ENTITY % appendix.element "INCLUDE">
<![%appendix.element;[
<!ELEMENT appendix %ho; (beginpage?,
                appendixinfo?,
                (%bookcomponent.title.content;),
                (%nav.class;)*,
                tocchap?,
                (%bookcomponent.content;),
                (%nav.class;)*)
 %ubiq.inclusion;>
<!--end of appendix.element-->]]>

<!ENTITY % appendix.attlist "INCLUDE">
<![%appendix.attlist;[
<!ATTLIST appendix
 %label.attrib;
 %status.attrib;
 %common.attrib;
 %appendix.role.attrib;
 %local.appendix.attrib;
>
<!--end
 of appendix.attlist-->]]>
<!--end of appendix.module-->]]>

<!ENTITY % chapter.module "INCLUDE">
<![%chapter.module;[
<!ENTITY % local.chapter.attrib "">
```

```
<!ENTITY % chapter.role.attrib "%role.attrib;">

<!ENTITY % chapter.element "INCLUDE">
<![%chapter.element;[
<!ELEMENT chapter %ho; (beginpage?,
                chapterinfo?,
                (%bookcomponent.title.content;),
                (%nav.class;)*,
                tocchap?,
                (%bookcomponent.content;),
                (%nav.class;)*)
  %ubiq.inclusion;>
<!--end of chapter.element-->]]>

<!ENTITY % chapter.attlist "INCLUDE">
<![%chapter.attlist;[
<!ATTLIST chapter
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %chapter.role.attrib;
  %local.chapter.attrib;
>
<!--end of chapter.attlist-->]]>
<!--end of chapter.module-->]]>

<!ENTITY % part.module "INCLUDE">
<![%part.module;[

<!-- Note that Part was to have its content model reduced in V4.4.  This
change
 will not be made after all. -->

<!ENTITY % local.part.attrib "">
<!ENTITY % part.role.attrib "%role.attrib;">

<!ENTITY % part.element "INCLUDE">
<![%part.element;[
<!ELEMENT part %ho; (beginpage?,
            partinfo?, (%bookcomponent.title.content;), partintro?,
  (%partcontent.mix;)+)
  %ubiq.inclusion;>
<!--end of part.element-->]]>

<!ENTITY % part.attlist "INCLUDE">
<![%part.attlist;[
<!ATTLIST part
  %label.attrib;
```

```
 %status.attrib;
 %common.attrib;
 %part.role.attrib;
 %local.part.attrib;
>
<!--end of part.attlist-->]]>
<!--ELEMENT PartIntro (defined below)-->
<!--end of part.module-->]]>

<!ENTITY % preface.module "INCLUDE">
<![%preface.module;[
<!ENTITY % local.preface.attrib "">
<!ENTITY % preface.role.attrib "%role.attrib;">

<!ENTITY % preface.element "INCLUDE">
<![%preface.element;[
<!ELEMENT preface %ho; (beginpage?,
                prefaceinfo?,
                (%bookcomponent.title.content;),
                (%nav.class;)*,

        tocchap?,
                (%bookcomponent.content;),
                (%nav.class;)*)
 %ubiq.inclusion;>
<!--end of preface.element-->]]>

<!ENTITY % preface.attlist "INCLUDE">
<![%preface.attlist;[
<!ATTLIST preface
 %status.attrib;
 %common.attrib;
 %preface.role.attrib;
 %local.preface.attrib;
>
<!--end of preface.attlist-->]]>
<!--end of preface.module-->]]>

<!ENTITY % reference.module "INCLUDE">
<![%reference.module;[
<!ENTITY % local.reference.attrib "">
<!ENTITY % reference.role.attrib "%role.attrib;">

<!ENTITY % reference.element "INCLUDE">
<![%reference.element;[
<!ELEMENT reference %ho; (beginpage?,
                referenceinfo?,
                (%bookcomponent.title.content;), partintro?,
```

```
                (%refentry.class;)+)
  %ubiq.inclusion;>
<!--end of reference.element-->]]>

<!ENTITY % reference.attlist "INCLUDE">
<![%reference.attlist;[
<!ATTLIST reference
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %reference.role.attrib;
  %local.reference.attrib;
>
<!--end
 of reference.attlist-->]]>
<!--ELEMENT PartIntro (defined below)-->
<!--end of reference.module-->]]>

<!ENTITY % partintro.module "INCLUDE">
<![%partintro.module;[
<!ENTITY % local.partintro.attrib "">
<!ENTITY % partintro.role.attrib "%role.attrib;">

<!ENTITY % partintro.element "INCLUDE">
<![%partintro.element;[
<!ELEMENT partintro %ho; ((%div.title.content;)?, (%bookcomponent.content;))
  %ubiq.inclusion;>
<!--end of partintro.element-->]]>

<!ENTITY % partintro.attlist "INCLUDE">
<![%partintro.attlist;[
<!ATTLIST partintro
  %label.attrib;
  %common.attrib;
  %partintro.role.attrib;
  %local.partintro.attrib;
>
<!--end of partintro.attlist-->]]>
<!--end of partintro.module-->]]>

<!-- ..... -->
<!-- Other Info elements ..... -->

<!ENTITY % appendixinfo.module "INCLUDE">
<![ %appendixinfo.module; [
<!ENTITY % local.appendixinfo.attrib
 "">
<!ENTITY % appendixinfo.role.attrib "%role.attrib;">
```

```
<!ENTITY % appendixinfo.element "INCLUDE">
<![ %appendixinfo.element; [
<!ELEMENT appendixinfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of appendixinfo.element-->]]>

<!ENTITY % appendixinfo.attlist "INCLUDE">
<![ %appendixinfo.attlist; [
<!ATTLIST appendixinfo
  %common.attrib;
  %appendixinfo.role.attrib;
  %local.appendixinfo.attrib;
>
<!--end of appendixinfo.attlist-->]]>
<!--end of appendixinfo.module-->]]>

<!ENTITY % bibliographyinfo.module "INCLUDE">
<![ %bibliographyinfo.module; [
<!ENTITY % local.bibliographyinfo.attrib "">
<!ENTITY % bibliographyinfo.role.attrib "%role.attrib;">

<!ENTITY % bibliographyinfo.element "INCLUDE">
<![ %bibliographyinfo.element; [
<!ELEMENT bibliographyinfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of bibliographyinfo.element-->]]>

<!ENTITY % bibliographyinfo.attlist "INCLUDE">
<![ %bibliographyinfo.attlist; [
<!ATTLIST bibliographyinfo
  %common.attrib;
  %bibliographyinfo.role.attrib;
  %local.bibliographyinfo.attrib;
>
<!--end
 of bibliographyinfo.attlist-->]]>
<!--end of bibliographyinfo.module-->]]>

<!ENTITY % chapterinfo.module "INCLUDE">
<![ %chapterinfo.module; [
<!ENTITY % local.chapterinfo.attrib "">
<!ENTITY % chapterinfo.role.attrib "%role.attrib;">

<!ENTITY % chapterinfo.element "INCLUDE">
<![ %chapterinfo.element; [
<!ELEMENT chapterinfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
```

```
<!--end of chapterinfo.element-->]]>

<!ENTITY % chapterinfo.attlist "INCLUDE">
<![ %chapterinfo.attlist; [
<!ATTLIST chapterinfo
  %common.attrib;
  %chapterinfo.role.attrib;
  %local.chapterinfo.attrib;
>
<!--end of chapterinfo.attlist-->]]>
<!--end of chapterinfo.module-->]]>

<!ENTITY % glossaryinfo.module "INCLUDE">
<![ %glossaryinfo.module; [
<!ENTITY % local.glossaryinfo.attrib "">
<!ENTITY % glossaryinfo.role.attrib "%role.attrib;">

<!ENTITY % glossaryinfo.element "INCLUDE">
<![ %glossaryinfo.element; [
<!ELEMENT glossaryinfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end
 of glossaryinfo.element-->]]>

<!ENTITY % glossaryinfo.attlist "INCLUDE">
<![ %glossaryinfo.attlist; [
<!ATTLIST glossaryinfo
  %common.attrib;
  %glossaryinfo.role.attrib;
  %local.glossaryinfo.attrib;
>
<!--end of glossaryinfo.attlist-->]]>
<!--end of glossaryinfo.module-->]]>

<!ENTITY % indexinfo.module "INCLUDE">
<![ %indexinfo.module; [
<!ENTITY % local.indexinfo.attrib "">
<!ENTITY % indexinfo.role.attrib "%role.attrib;">

<!ENTITY % indexinfo.element "INCLUDE">
<![ %indexinfo.element; [
<!ELEMENT indexinfo %ho; ((%info.class;)+)>
<!--end of indexinfo.element-->]]>

<!ENTITY % indexinfo.attlist "INCLUDE">
<![ %indexinfo.attlist; [
<!ATTLIST indexinfo
  %common.attrib;
```

```
 %indexinfo.role.attrib;
 %local.indexinfo.attrib;
>
<!--end of indexinfo.attlist-->]]>
<!--end of indexinfo.module-->]]>

<!ENTITY % setindexinfo.module "INCLUDE">
<![ %setindexinfo.module; [
<!ENTITY % local.setindexinfo.attrib "">
<!ENTITY % setindexinfo.role.attrib
 "%role.attrib;">

<!ENTITY % setindexinfo.element "INCLUDE">
<![ %setindexinfo.element; [
<!ELEMENT setindexinfo %ho; ((%info.class;)+)
 %beginpage.exclusion;>
<!--end of setindexinfo.element-->]]>

<!ENTITY % setindexinfo.attlist "INCLUDE">
<![ %setindexinfo.attlist; [
<!ATTLIST setindexinfo
 %common.attrib;
 %setindexinfo.role.attrib;
 %local.setindexinfo.attrib;
>
<!--end of setindexinfo.attlist-->]]>
<!--end of setindexinfo.module-->]]>

<!ENTITY % partinfo.module "INCLUDE">
<![ %partinfo.module; [
<!ENTITY % local.partinfo.attrib "">
<!ENTITY % partinfo.role.attrib "%role.attrib;">

<!ENTITY % partinfo.element "INCLUDE">
<![ %partinfo.element; [
<!ELEMENT partinfo %ho; ((%info.class;)+)
 %beginpage.exclusion;>
<!--end of partinfo.element-->]]>

<!ENTITY % partinfo.attlist "INCLUDE">
<![ %partinfo.attlist; [
<!ATTLIST partinfo
 %common.attrib;
 %partinfo.role.attrib;
 %local.partinfo.attrib;
>
<!--end of partinfo.attlist-->]]>
<!--end of partinfo.module-->]]>
```

```
<!ENTITY %
 prefaceinfo.module "INCLUDE">
<![ %prefaceinfo.module; [
<!ENTITY % local.prefaceinfo.attrib "">
<!ENTITY % prefaceinfo.role.attrib "%role.attrib;">

<!ENTITY % prefaceinfo.element "INCLUDE">
<![ %prefaceinfo.element; [
<!ELEMENT prefaceinfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of prefaceinfo.element-->]]>

<!ENTITY % prefaceinfo.attlist "INCLUDE">
<![ %prefaceinfo.attlist; [
<!ATTLIST prefaceinfo
  %common.attrib;
  %prefaceinfo.role.attrib;
  %local.prefaceinfo.attrib;
>
<!--end of prefaceinfo.attlist-->]]>
<!--end of prefaceinfo.module-->]]>

<!ENTITY % refentryinfo.module "INCLUDE">
<![ %refentryinfo.module; [
<!ENTITY % local.refentryinfo.attrib "">
<!ENTITY % refentryinfo.role.attrib "%role.attrib;">

<!ENTITY % refentryinfo.element "INCLUDE">
<![ %refentryinfo.element; [
<!ELEMENT refentryinfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of refentryinfo.element-->]]>

<!ENTITY % refentryinfo.attlist "INCLUDE">
<![ %refentryinfo.attlist; [
<!ATTLIST
 refentryinfo
  %common.attrib;
  %refentryinfo.role.attrib;
  %local.refentryinfo.attrib;
>
<!--end of refentryinfo.attlist-->]]>
<!--end of refentryinfo.module-->]]>

<!ENTITY % refsectioninfo.module "INCLUDE">
<![ %refsectioninfo.module; [
<!ENTITY % local.refsectioninfo.attrib "">
```

```
<!ENTITY % refsectioninfo.role.attrib "%role.attrib;">

<!ENTITY % refsectioninfo.element "INCLUDE">
<![ %refsectioninfo.element; [
<!ELEMENT refsectioninfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of refsectioninfo.element-->]]>

<!ENTITY % refsectioninfo.attlist "INCLUDE">
<![ %refsectioninfo.attlist; [
<!ATTLIST refsectioninfo
  %common.attrib;
  %refsectioninfo.role.attrib;
  %local.refsectioninfo.attrib;
>
<!--end of refsectioninfo.attlist-->]]>
<!--end of refsectioninfo.module-->]]>

<!ENTITY % refsect1info.module "INCLUDE">
<![ %refsect1info.module; [
<!ENTITY % local.refsect1info.attrib "">
<!ENTITY % refsect1info.role.attrib "%role.attrib;">

<!ENTITY % refsect1info.element "INCLUDE">
<![
 %refsect1info.element; [
<!ELEMENT refsect1info %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of refsect1info.element-->]]>

<!ENTITY % refsect1info.attlist "INCLUDE">
<![ %refsect1info.attlist; [
<!ATTLIST refsect1info
  %common.attrib;
  %refsect1info.role.attrib;
  %local.refsect1info.attrib;
>
<!--end of refsect1info.attlist-->]]>
<!--end of refsect1info.module-->]]>

<!ENTITY % refsect2info.module "INCLUDE">
<![ %refsect2info.module; [
<!ENTITY % local.refsect2info.attrib "">
<!ENTITY % refsect2info.role.attrib "%role.attrib;">

<!ENTITY % refsect2info.element "INCLUDE">
<![ %refsect2info.element; [
<!ELEMENT refsect2info %ho; ((%info.class;)+)
```

```
  %beginpage.exclusion;>
<!--end of refsect2info.element-->]]>

<!ENTITY % refsect2info.attlist "INCLUDE">
<![ %refsect2info.attlist; [
<!ATTLIST refsect2info
  %common.attrib;
  %refsect2info.role.attrib;
  %local.refsect2info.attrib;
>
<!--end of refsect2info.attlist-->]]>
<!--end of refsect2info.module-->]]>

<!ENTITY %
 refsect3info.module "INCLUDE">
<![ %refsect3info.module; [
<!ENTITY % local.refsect3info.attrib "">
<!ENTITY % refsect3info.role.attrib "%role.attrib;">

<!ENTITY % refsect3info.element "INCLUDE">
<![ %refsect3info.element; [
<!ELEMENT refsect3info %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of refsect3info.element-->]]>

<!ENTITY % refsect3info.attlist "INCLUDE">
<![ %refsect3info.attlist; [
<!ATTLIST refsect3info
  %common.attrib;
  %refsect3info.role.attrib;
  %local.refsect3info.attrib;
>
<!--end of refsect3info.attlist-->]]>
<!--end of refsect3info.module-->]]>

<!ENTITY % refsynopsisdivinfo.module "INCLUDE">
<![ %refsynopsisdivinfo.module; [
<!ENTITY % local.refsynopsisdivinfo.attrib "">
<!ENTITY % refsynopsisdivinfo.role.attrib "%role.attrib;">

<!ENTITY % refsynopsisdivinfo.element "INCLUDE">
<![ %refsynopsisdivinfo.element; [
<!ELEMENT refsynopsisdivinfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of refsynopsisdivinfo.element-->]]>

<!ENTITY % refsynopsisdivinfo.attlist
```

```
 "INCLUDE">
<![ %refsynopsisdivinfo.attlist; [
<!ATTLIST refsynopsisdivinfo
  %common.attrib;
  %refsynopsisdivinfo.role.attrib;
  %local.refsynopsisdivinfo.attrib;
>
<!--end of refsynopsisdivinfo.attlist-->]]>
<!--end of refsynopsisdivinfo.module-->]]>

<!ENTITY % referenceinfo.module "INCLUDE">
<![ %referenceinfo.module; [
<!ENTITY % local.referenceinfo.attrib "">
<!ENTITY % referenceinfo.role.attrib "%role.attrib;">

<!ENTITY % referenceinfo.element "INCLUDE">
<![ %referenceinfo.element; [
<!ELEMENT referenceinfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of referenceinfo.element-->]]>

<!ENTITY % referenceinfo.attlist "INCLUDE">
<![ %referenceinfo.attlist; [
<!ATTLIST referenceinfo
  %common.attrib;
  %referenceinfo.role.attrib;
  %local.referenceinfo.attrib;
>
<!--end of referenceinfo.attlist-->]]>
<!--end of referenceinfo.module-->]]>

<!ENTITY % local.sect1info.attrib "">
<!ENTITY % sect1info.role.attrib "%role.attrib;">

<!ENTITY % sect1info.element
 "INCLUDE">
<![%sect1info.element;[
<!ELEMENT sect1info %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of sect1info.element-->]]>

<!ENTITY % sect1info.attlist "INCLUDE">
<![%sect1info.attlist;[
<!ATTLIST sect1info
  %common.attrib;
  %sect1info.role.attrib;
  %local.sect1info.attrib;
>
```

```
<!--end of sect1info.attlist-->]]>

<!ENTITY % local.sect2info.attrib "">
<!ENTITY % sect2info.role.attrib "%role.attrib;">

<!ENTITY % sect2info.element "INCLUDE">
<![%sect2info.element;[
<!ELEMENT sect2info %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of sect2info.element-->]]>

<!ENTITY % sect2info.attlist "INCLUDE">
<![%sect2info.attlist;[
<!ATTLIST sect2info
  %common.attrib;
  %sect2info.role.attrib;
  %local.sect2info.attrib;
>
<!--end of sect2info.attlist-->]]>

<!ENTITY % local.sect3info.attrib "">
<!ENTITY % sect3info.role.attrib "%role.attrib;">

<!ENTITY % sect3info.element "INCLUDE">
<![%sect3info.element;[
<!ELEMENT sect3info %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end
 of sect3info.element-->]]>

<!ENTITY % sect3info.attlist "INCLUDE">
<![%sect3info.attlist;[
<!ATTLIST sect3info
  %common.attrib;
  %sect3info.role.attrib;
  %local.sect3info.attrib;
>
<!--end of sect3info.attlist-->]]>

<!ENTITY % local.sect4info.attrib "">
<!ENTITY % sect4info.role.attrib "%role.attrib;">

<!ENTITY % sect4info.element "INCLUDE">
<![%sect4info.element;[
<!ELEMENT sect4info %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of sect4info.element-->]]>
```

```
<!ENTITY % sect4info.attlist "INCLUDE">
<![%sect4info.attlist;[
<!ATTLIST sect4info
  %common.attrib;
  %sect4info.role.attrib;
  %local.sect4info.attrib;
>
<!--end of sect4info.attlist-->]]>

<!ENTITY % local.sect5info.attrib "">
<!ENTITY % sect5info.role.attrib "%role.attrib;">

<!ENTITY % sect5info.element "INCLUDE">
<![%sect5info.element;[
<!ELEMENT sect5info %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of sect5info.element-->]]>

<!ENTITY % sect5info.attlist "INCLUDE">
<![%sect5info.attlist;[
<!ATTLIST
 sect5info
  %common.attrib;
  %sect5info.role.attrib;
  %local.sect5info.attrib;
>
<!--end of sect5info.attlist-->]]>

<!-- ..................................................................... -->
<!-- Section (parallel to Sect*) ..................................... -->

<!ENTITY % section.content.module "INCLUDE">
<![ %section.content.module; [
<!ENTITY % section.module "INCLUDE">
<![ %section.module; [
<!ENTITY % local.section.attrib "">
<!ENTITY % section.role.attrib "%role.attrib;">

<!ENTITY % section.element "INCLUDE">
<![ %section.element; [
<!ELEMENT section %ho; (sectioninfo?,
   (%sect.title.content;),
   (%nav.class;)*,
   (((%divcomponent.mix;)+,
     ((%refentry.class;)*|(%section.class;)*|simplesect*))
    | (%refentry.class;)+|(%section.class;)+|simplesect+),
   (%nav.class;)*)
  %ubiq.inclusion;>
```

```
<!--end of section.element-->]]>

<!ENTITY % section.attlist "INCLUDE">
<![ %section.attlist; [
<!ATTLIST section
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %section.role.attrib;
  %local.section.attrib;
>
<!--end
 of section.attlist-->]]>
<!--end of section.module-->]]>

<!ENTITY % sectioninfo.module "INCLUDE">
<![ %sectioninfo.module; [
<!ENTITY % sectioninfo.role.attrib "%role.attrib;">
<!ENTITY % local.sectioninfo.attrib "">

<!ENTITY % sectioninfo.element "INCLUDE">
<![ %sectioninfo.element; [
<!ELEMENT sectioninfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of sectioninfo.element-->]]>

<!ENTITY % sectioninfo.attlist "INCLUDE">
<![ %sectioninfo.attlist; [
<!ATTLIST sectioninfo
  %common.attrib;
  %sectioninfo.role.attrib;
  %local.sectioninfo.attrib;
>
<!--end of sectioninfo.attlist-->]]>
<!--end of sectioninfo.module-->]]>
<!--end of section.content.module-->]]>

<!-- ..................................................................... -->
<!-- Sect1, Sect2, Sect3, Sect4, Sect5 ..................................... -->

<!ENTITY % sect1.module "INCLUDE">
<![%sect1.module;[
<!ENTITY % local.sect1.attrib
 "">
<!ENTITY % sect1.role.attrib "%role.attrib;">

<!ENTITY % sect1.element "INCLUDE">
<![%sect1.element;[
```

```
<!ELEMENT sect1 %ho; (sect1info?, (%sect.title.content;), (%nav.class;)*,
  (((%divcomponent.mix;)+,
  ((%refentry.class;)* | sect2* | simplesect*))
  | (%refentry.class;)+ | sect2+ | simplesect+), (%nav.class;)*)
  %ubiq.inclusion;>
<!--end of sect1.element-->]]>

<!-- Renderas: Indicates the format in which the heading should
  appear -->


<!ENTITY % sect1.attlist "INCLUDE">
<![%sect1.attlist;[
<!ATTLIST sect1
  renderas (sect2
    |sect3
    |sect4
    |sect5)  #IMPLIED
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %sect1.role.attrib;
  %local.sect1.attrib;
>
<!--end of sect1.attlist-->]]>
<!--end of sect1.module-->]]>

<!ENTITY % sect2.module "INCLUDE">
<![%sect2.module;[
<!ENTITY % local.sect2.attrib "">
<!ENTITY % sect2.role.attrib "%role.attrib;">

<!ENTITY % sect2.element "INCLUDE">
<![%sect2.element;[
<!ELEMENT sect2 %ho; (sect2info?, (%sect.title.content;), (%nav.class;)*,
  (((%divcomponent.mix;)+,
  ((%refentry.class;)*
 | sect3* | simplesect*))
  | (%refentry.class;)+ | sect3+ | simplesect+), (%nav.class;)*)>
<!--end of sect2.element-->]]>

<!-- Renderas: Indicates the format in which the heading should
  appear -->


<!ENTITY % sect2.attlist "INCLUDE">
<![%sect2.attlist;[
<!ATTLIST sect2
```

```
 renderas (sect1
   |sect3
   |sect4
   |sect5)  #IMPLIED
 %label.attrib;
 %status.attrib;
 %common.attrib;
 %sect2.role.attrib;
 %local.sect2.attrib;
>
<!--end of sect2.attlist-->]]>
<!--end of sect2.module-->]]>

<!ENTITY % sect3.module "INCLUDE">
<![%sect3.module;[
<!ENTITY % local.sect3.attrib "">
<!ENTITY % sect3.role.attrib "%role.attrib;">

<!ENTITY % sect3.element "INCLUDE">
<![%sect3.element;[
<!ELEMENT sect3 %ho; (sect3info?, (%sect.title.content;), (%nav.class;)*,
 (((%divcomponent.mix;)+,
 ((%refentry.class;)* | sect4* | simplesect*))
 | (%refentry.class;)+ | sect4+ | simplesect+), (%nav.class;)*)>
<!--end of sect3.element-->]]>

<!--
 Renderas: Indicates the format in which the heading should
  appear -->


<!ENTITY % sect3.attlist "INCLUDE">
<![%sect3.attlist;[
<!ATTLIST sect3
 renderas (sect1
   |sect2
   |sect4
   |sect5)  #IMPLIED
 %label.attrib;
 %status.attrib;
 %common.attrib;
 %sect3.role.attrib;
 %local.sect3.attrib;
>
<!--end of sect3.attlist-->]]>
<!--end of sect3.module-->]]>

<!ENTITY % sect4.module "INCLUDE">
```

```
<![%sect4.module;[
<!ENTITY % local.sect4.attrib "">
<!ENTITY % sect4.role.attrib "%role.attrib;">

<!ENTITY % sect4.element "INCLUDE">
<![%sect4.element;[
<!ELEMENT sect4 %ho; (sect4info?, (%sect.title.content;), (%nav.class;)*,
  (((%divcomponent.mix;)+,
  ((%refentry.class;)* | sect5* | simplesect*))
  | (%refentry.class;)+ | sect5+ | simplesect+), (%nav.class;)*)>
<!--end of sect4.element-->]]>

<!-- Renderas: Indicates the format in which the heading should
  appear -->


<!ENTITY % sect4.attlist "INCLUDE">
<![%sect4.attlist;[
<!ATTLIST sect4
  renderas (sect1
    |sect2
    |sect3
    |sect5)  #IMPLIED
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %sect4.role.attrib;
  %local.sect4.attrib;
>
<!--end
 of sect4.attlist-->]]>
<!--end of sect4.module-->]]>

<!ENTITY % sect5.module "INCLUDE">
<![%sect5.module;[
<!ENTITY % local.sect5.attrib "">
<!ENTITY % sect5.role.attrib "%role.attrib;">

<!ENTITY % sect5.element "INCLUDE">
<![%sect5.element;[
<!ELEMENT sect5 %ho; (sect5info?, (%sect.title.content;), (%nav.class;)*,
  (((%divcomponent.mix;)+, ((%refentry.class;)* | simplesect*))
  | (%refentry.class;)+ | simplesect+), (%nav.class;)*)>
<!--end of sect5.element-->]]>

<!-- Renderas: Indicates the format in which the heading should
  appear -->
```

```
<!ENTITY % sect5.attlist "INCLUDE">
<![%sect5.attlist;[
<!ATTLIST sect5
  renderas (sect1
    |sect2
    |sect3
    |sect4)  #IMPLIED
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %sect5.role.attrib;
  %local.sect5.attrib;
>
<!--end of sect5.attlist-->]]>
<!--end of sect5.module-->]]>

<!ENTITY % simplesect.module
 "INCLUDE">
<![%simplesect.module;[
<!ENTITY % local.simplesect.attrib "">
<!ENTITY % simplesect.role.attrib "%role.attrib;">

<!ENTITY % simplesect.element "INCLUDE">
<![%simplesect.element;[
<!ELEMENT simplesect %ho; ((%sect.title.content;), (%divcomponent.mix;)+)
  %ubiq.inclusion;>
<!--end of simplesect.element-->]]>

<!ENTITY % simplesect.attlist "INCLUDE">
<![%simplesect.attlist;[
<!ATTLIST simplesect
  %common.attrib;
  %simplesect.role.attrib;
  %local.simplesect.attrib;
>
<!--end of simplesect.attlist-->]]>
<!--end of simplesect.module-->]]>

<!-- ..... -->
<!-- Bibliography ..... -->

<!ENTITY % bibliography.content.module "INCLUDE">
<![%bibliography.content.module;[
<!ENTITY % bibliography.module "INCLUDE">
<![%bibliography.module;[
<!ENTITY % local.bibliography.attrib "">
<!ENTITY % bibliography.role.attrib "%role.attrib;">
```

```
<!ENTITY % bibliography.element
 "INCLUDE">
<![%bibliography.element;[
<!ELEMENT bibliography %ho; (bibliographyinfo?,
                    (%bookcomponent.title.content;)?,
                    (%component.mix;)*,
                    (bibliodiv+ | (biblioentry|bibliomixed)+))>
<!--end of bibliography.element-->]]>

<!ENTITY % bibliography.attlist "INCLUDE">
<![%bibliography.attlist;[
<!ATTLIST bibliography
  %status.attrib;
  %common.attrib;
  %bibliography.role.attrib;
  %local.bibliography.attrib;
>
<!--end of bibliography.attlist-->]]>
<!--end of bibliography.module-->]]>

<!ENTITY % bibliodiv.module "INCLUDE">
<![%bibliodiv.module;[
<!ENTITY % local.bibliodiv.attrib "">
<!ENTITY % bibliodiv.role.attrib "%role.attrib;">

<!ENTITY % bibliodiv.element "INCLUDE">
<![%bibliodiv.element;[
<!ELEMENT bibliodiv %ho; ((%sect.title.content;)?, (%component.mix;)*,
  (biblioentry|bibliomixed)+)>
<!--end of bibliodiv.element-->]]>

<!ENTITY % bibliodiv.attlist "INCLUDE">
<![%bibliodiv.attlist;[
<!ATTLIST bibliodiv
  %status.attrib;
  %common.attrib;
  %bibliodiv.role.attrib;
  %local.bibliodiv.attrib;
>
<!--end
 of bibliodiv.attlist-->]]>
<!--end of bibliodiv.module-->]]>
<!--end of bibliography.content.module-->]]>

<!-- ..... -->
<!-- Glossary ..... -->
```

```
<!ENTITY % glossary.content.module "INCLUDE">
<![%glossary.content.module;[
<!ENTITY % glossary.module "INCLUDE">
<![%glossary.module;[
<!ENTITY % local.glossary.attrib "">
<!ENTITY % glossary.role.attrib "%role.attrib;">

<!ENTITY % glossary.element "INCLUDE">
<![%glossary.element;[
<!ELEMENT glossary %ho; (glossaryinfo?,
                (%bookcomponent.title.content;)?,
                (%component.mix;)*,
                (glossdiv+ | glossentry+), bibliography?)>
<!--end of glossary.element-->]]>

<!ENTITY % glossary.attlist "INCLUDE">
<![%glossary.attlist;[
<!ATTLIST glossary
  %status.attrib;
  %common.attrib;
  %glossary.role.attrib;
  %local.glossary.attrib;
>
<!--end
 of glossary.attlist-->]]>
<!--end of glossary.module-->]]>

<!ENTITY % glossdiv.module "INCLUDE">
<![%glossdiv.module;[
<!ENTITY % local.glossdiv.attrib "">
<!ENTITY % glossdiv.role.attrib "%role.attrib;">

<!ENTITY % glossdiv.element "INCLUDE">
<![%glossdiv.element;[
<!ELEMENT glossdiv %ho; ((%sect.title.content;), (%component.mix;)*,
  glossentry+)>
<!--end of glossdiv.element-->]]>

<!ENTITY % glossdiv.attlist "INCLUDE">
<![%glossdiv.attlist;[
<!ATTLIST glossdiv
  %status.attrib;
  %common.attrib;
  %glossdiv.role.attrib;
  %local.glossdiv.attrib;
>
<!--end of glossdiv.attlist-->]]>
<!--end of glossdiv.module-->]]>
```

```
<!--end of glossary.content.module-->]]>

<!-- ..... -->
<!-- Index and SetIndex ..... -->

<!ENTITY % index.content.module "INCLUDE">
<![%index.content.module;[
<!ENTITY % indexes.module "INCLUDE">
<![%indexes.module;[
<!ENTITY
 % local.indexes.attrib "">
<!ENTITY % indexes.role.attrib "%role.attrib;">

<!ENTITY % index.element "INCLUDE">
<![%index.element;[
<!ELEMENT index %ho; (indexinfo?,
            (%bookcomponent.title.content;)?,
            (%component.mix;)*,
            (indexdiv* | indexentry*))
  %ndxterm.exclusion;>
<!--end of index.element-->]]>

<!ENTITY % index.attlist "INCLUDE">
<![%index.attlist;[
<!ATTLIST index
  type  CDATA  #IMPLIED
  %common.attrib;
  %indexes.role.attrib;
  %local.indexes.attrib;
>
<!--end of index.attlist-->]]>

<!ENTITY % setindex.element "INCLUDE">
<![%setindex.element;[
<!ELEMENT setindex %ho; (setindexinfo?,
              (%bookcomponent.title.content;)?,
              (%component.mix;)*,
              (indexdiv* | indexentry*))
  %ndxterm.exclusion;>
<!--end of setindex.element-->]]>

<!ENTITY % setindex.attlist "INCLUDE">
<![%setindex.attlist;[
<!ATTLIST setindex
  %common.attrib;
  %indexes.role.attrib;
  %local.indexes.attrib;
>
```

```
<!--end
 of setindex.attlist-->]]>
<!--end of indexes.module-->]]>

<!ENTITY % indexdiv.module "INCLUDE">
<![%indexdiv.module;[

<!-- SegmentedList in this content is useful for marking up permuted
    indices. -->

<!ENTITY % local.indexdiv.attrib "">
<!ENTITY % indexdiv.role.attrib "%role.attrib;">

<!ENTITY % indexdiv.element "INCLUDE">
<![%indexdiv.element;[
<!ELEMENT indexdiv %ho; ((%sect.title.content;)?, ((%indexdivcomponent.mix;)*,
  (indexentry+ | segmentedlist)))>
<!--end of indexdiv.element-->]]>

<!ENTITY % indexdiv.attlist "INCLUDE">
<![%indexdiv.attlist;[
<!ATTLIST indexdiv
  %common.attrib;
  %indexdiv.role.attrib;
  %local.indexdiv.attrib;
>
<!--end of indexdiv.attlist-->]]>
<!--end of indexdiv.module-->]]>

<!ENTITY % indexentry.module "INCLUDE">
<![%indexentry.module;[
<!-- Index entries appear in the index, not the text. -->

<!ENTITY % local.indexentry.attrib "">
<!ENTITY % indexentry.role.attrib "%role.attrib;">

<!ENTITY % indexentry.element
 "INCLUDE">
<![%indexentry.element;[
<!ELEMENT indexentry %ho; (primaryie, (seeie|seealsoie)*,
  (secondaryie, (seeie|seealsoie|tertiaryie)*)*)>
<!--end of indexentry.element-->]]>

<!ENTITY % indexentry.attlist "INCLUDE">
<![%indexentry.attlist;[
<!ATTLIST indexentry
  %common.attrib;
  %indexentry.role.attrib;
```

```
  %local.indexentry.attrib;
>
<!--end of indexentry.attlist--]]>
<!--end of indexentry.module--]]>

<!ENTITY % primsecterie.module "INCLUDE">
<![%primsecterie.module;[
<!ENTITY % local.primsecterie.attrib "">
<!ENTITY % primsecterie.role.attrib "%role.attrib;">

<!ENTITY % primaryie.element "INCLUDE">
<![%primaryie.element;[
<!ELEMENT primaryie %ho; (%ndxterm.char.mix;)*>
<!--end of primaryie.element--]]>

<!-- to IndexTerms that these entries represent -->

<!ENTITY % primaryie.attlist "INCLUDE">
<![%primaryie.attlist;[
<!ATTLIST primaryie
  %linkends.attrib;  %common.attrib;
  %primsecterie.role.attrib;
  %local.primsecterie.attrib;
>
<!--end of primaryie.attlist--]]>

<!ENTITY
 % secondaryie.element "INCLUDE">
<![%secondaryie.element;[
<!ELEMENT secondaryie %ho; (%ndxterm.char.mix;)*>
<!--end of secondaryie.element--]]>

<!-- to IndexTerms that these entries represent -->

<!ENTITY % secondaryie.attlist "INCLUDE">
<![%secondaryie.attlist;[
<!ATTLIST secondaryie
  %linkends.attrib;  %common.attrib;
  %primsecterie.role.attrib;
  %local.primsecterie.attrib;
>
<!--end of secondaryie.attlist--]]>

<!ENTITY % tertiaryie.element "INCLUDE">
<![%tertiaryie.element;[
<!ELEMENT tertiaryie %ho; (%ndxterm.char.mix;)*>
<!--end of tertiaryie.element--]]>
```

```
<!-- to IndexTerms that these entries represent -->

<!ENTITY % tertiaryie.attlist "INCLUDE">
<![%tertiaryie.attlist;[
<!ATTLIST tertiaryie
  %linkends.attrib;  %common.attrib;
  %primsecterie.role.attrib;
  %local.primsecterie.attrib;
>
<!--end of tertiaryie.attlist-->]]>

<!--end of primsecterie.module-->]]>

<!ENTITY % seeie.module "INCLUDE">
<![%seeie.module;[
<!ENTITY % local.seeie.attrib "">
<!ENTITY
 % seeie.role.attrib "%role.attrib;">

<!ENTITY % seeie.element "INCLUDE">
<![%seeie.element;[
<!ELEMENT seeie %ho; (%ndxterm.char.mix;)*>
<!--end of seeie.element-->]]>

<!-- to IndexEntry to look up -->


<!ENTITY % seeie.attlist "INCLUDE">
<![%seeie.attlist;[
<!ATTLIST seeie
  %linkend.attrib;  %common.attrib;
  %seeie.role.attrib;
  %local.seeie.attrib;
>
<!--end of seeie.attlist-->]]>
<!--end of seeie.module-->]]>

<!ENTITY % seealsoie.module "INCLUDE">
<![%seealsoie.module;[
<!ENTITY % local.seealsoie.attrib "">
<!ENTITY % seealsoie.role.attrib "%role.attrib;">

<!ENTITY % seealsoie.element "INCLUDE">
<![%seealsoie.element;[
<!ELEMENT seealsoie %ho; (%ndxterm.char.mix;)*>
<!--end of seealsoie.element-->]]>

<!-- to related IndexEntries -->
```

```
<!ENTITY % seealsoie.attlist "INCLUDE">
<![%seealsoie.attlist;[
<!ATTLIST seealsoie
  %linkends.attrib;  %common.attrib;
  %seealsoie.role.attrib;
  %local.seealsoie.attrib;
>
<!--end of seealsoie.attlist-->]]>
<!--end of seealsoie.module-->]]>
<!--end
 of index.content.module-->]]>

<!-- ..... -->
<!-- RefEntry ..... -->

<!ENTITY % refentry.content.module "INCLUDE">
<![%refentry.content.module;[
<!ENTITY % refentry.module "INCLUDE">
<![%refentry.module;[
<!ENTITY % local.refentry.attrib "">
<!ENTITY % refentry.role.attrib "%role.attrib;">

<!ENTITY % refentry.element "INCLUDE">
<![%refentry.element;[
<!ELEMENT refentry %ho; (beginpage?,
                (%ndxterm.class;)*,
                refentryinfo?, refmeta?, (remark|%link.char.class;)*,
                refnamediv+, refsynopsisdiv?, (refsect1+|refsection+))
  %ubiq.inclusion;>
<!--end of refentry.element-->]]>

<!ENTITY % refentry.attlist "INCLUDE">
<![%refentry.attlist;[
<!ATTLIST refentry
  %status.attrib;
  %common.attrib;
  %refentry.role.attrib;
  %local.refentry.attrib;
>
<!--end of refentry.attlist-->]]>
<!--end of refentry.module-->]]>

<!ENTITY
 % refmeta.module "INCLUDE">
<![%refmeta.module;[
<!ENTITY % local.refmeta.attrib "">
```

```
<!ENTITY % refmeta.role.attrib "%role.attrib;">

<!ENTITY % refmeta.element "INCLUDE">
<![%refmeta.element;[
<!ELEMENT refmeta %ho; ((%ndxterm.class;)*,
                refentrytitle, manvolnum?, refmiscinfo*,
                (%ndxterm.class;)*)
  %beginpage.exclusion;>
<!--end of refmeta.element-->]]>

<!ENTITY % refmeta.attlist "INCLUDE">
<![%refmeta.attlist;[
<!ATTLIST refmeta
  %common.attrib;
  %refmeta.role.attrib;
  %local.refmeta.attrib;
>
<!--end of refmeta.attlist-->]]>
<!--end of refmeta.module-->]]>

<!ENTITY % refmiscinfo.module "INCLUDE">
<![%refmiscinfo.module;[
<!ENTITY % local.refmiscinfo.attrib "">
<!ENTITY % refmiscinfo.role.attrib "%role.attrib;">

<!ENTITY % refmiscinfo.element "INCLUDE">
<![%refmiscinfo.element;[
<!ELEMENT refmiscinfo %ho; (%docinfo.char.mix;)*>
<!--end of refmiscinfo.element-->]]>

<!-- Class: Freely assignable parameter; no default -->


<!ENTITY
 % refmiscinfo.attlist "INCLUDE">
<![%refmiscinfo.attlist;[
<!ATTLIST refmiscinfo
  class  CDATA  #IMPLIED
  %common.attrib;
  %refmiscinfo.role.attrib;
  %local.refmiscinfo.attrib;
>
<!--end of refmiscinfo.attlist-->]]>
<!--end of refmiscinfo.module-->]]>

<!ENTITY % refnamediv.module "INCLUDE">
<![%refnamediv.module;[
<!ENTITY % local.refnamediv.attrib "">
```

```
<!ENTITY % refnamediv.role.attrib "%role.attrib;">

<!ENTITY % refnamediv.element "INCLUDE">
<![%refnamediv.element;[
<!ELEMENT refnamediv %ho; (refdescriptor?, refname+, refpurpose, refclass*,
  (remark|%link.char.class;)*)>
<!--end of refnamediv.element-->]]>

<!ENTITY % refnamediv.attlist "INCLUDE">
<![%refnamediv.attlist;[
<!ATTLIST refnamediv
  %common.attrib;
  %refnamediv.role.attrib;
  %local.refnamediv.attrib;
>
<!--end of refnamediv.attlist-->]]>
<!--end of refnamediv.module-->]]>

<!ENTITY % refdescriptor.module "INCLUDE">
<![%refdescriptor.module;[
<!ENTITY % local.refdescriptor.attrib "">
<!ENTITY % refdescriptor.role.attrib
 "%role.attrib;">

<!ENTITY % refdescriptor.element "INCLUDE">
<![%refdescriptor.element;[
<!ELEMENT refdescriptor %ho; (%refname.char.mix;)*>
<!--end of refdescriptor.element-->]]>

<!ENTITY % refdescriptor.attlist "INCLUDE">
<![%refdescriptor.attlist;[
<!ATTLIST refdescriptor
  %common.attrib;
  %refdescriptor.role.attrib;
  %local.refdescriptor.attrib;
>
<!--end of refdescriptor.attlist-->]]>
<!--end of refdescriptor.module-->]]>

<!ENTITY % refname.module "INCLUDE">
<![%refname.module;[
<!ENTITY % local.refname.attrib "">
<!ENTITY % refname.role.attrib "%role.attrib;">

<!ENTITY % refname.element "INCLUDE">
<![%refname.element;[
<!ELEMENT refname %ho; (%refname.char.mix;)*>
<!--end of refname.element-->]]>
```

```
<!ENTITY % refname.attlist "INCLUDE">
<![%refname.attlist;[
<!ATTLIST refname
  %common.attrib;
  %refname.role.attrib;
  %local.refname.attrib;
>
<!--end of refname.attlist-->]]>
<!--end of refname.module-->]]>

<!ENTITY % refpurpose.module "INCLUDE">
<![%refpurpose.module;[
<!ENTITY
 % local.refpurpose.attrib "">
<!ENTITY % refpurpose.role.attrib "%role.attrib;">

<!ENTITY % refpurpose.element "INCLUDE">
<![%refpurpose.element;[
<!ELEMENT refpurpose %ho; (%refinline.char.mix;)*>
<!--end of refpurpose.element-->]]>

<!ENTITY % refpurpose.attlist "INCLUDE">
<![%refpurpose.attlist;[
<!ATTLIST refpurpose
  %common.attrib;
  %refpurpose.role.attrib;
  %local.refpurpose.attrib;
>
<!--end of refpurpose.attlist-->]]>
<!--end of refpurpose.module-->]]>

<!ENTITY % refclass.module "INCLUDE">
<![%refclass.module;[
<!ENTITY % local.refclass.attrib "">
<!ENTITY % refclass.role.attrib "%role.attrib;">

<!ENTITY % refclass.element "INCLUDE">
<![%refclass.element;[
<!ELEMENT refclass %ho; (%refclass.char.mix;)*>
<!--end of refclass.element-->]]>

<!ENTITY % refclass.attlist "INCLUDE">
<![%refclass.attlist;[
<!ATTLIST refclass
  %common.attrib;
  %refclass.role.attrib;
  %local.refclass.attrib;
```

```
>
<!--end of refclass.attlist-->]]>
<!--end of refclass.module-->]]>

<!ENTITY
 % refsynopsisdiv.module "INCLUDE">
<![%refsynopsisdiv.module;[
<!ENTITY % local.refsynopsisdiv.attrib "">
<!ENTITY % refsynopsisdiv.role.attrib "%role.attrib;">

<!ENTITY % refsynopsisdiv.element "INCLUDE">
<![%refsynopsisdiv.element;[
<!ELEMENT refsynopsisdiv %ho; (refsynopsisdivinfo?, (%refsect.title.content;)?,
  (((%refcomponent.mix;)+, refsect2*) | (refsect2+)))>
<!--end of refsynopsisdiv.element-->]]>

<!ENTITY % refsynopsisdiv.attlist "INCLUDE">
<![%refsynopsisdiv.attlist;[
<!ATTLIST refsynopsisdiv
  %common.attrib;
  %refsynopsisdiv.role.attrib;
  %local.refsynopsisdiv.attrib;
>
<!--end of refsynopsisdiv.attlist-->]]>
<!--end of refsynopsisdiv.module-->]]>

<!ENTITY % refsection.module "INCLUDE">
<![%refsection.module;[
<!ENTITY % local.refsection.attrib "">
<!ENTITY % refsection.role.attrib "%role.attrib;">

<!ENTITY % refsection.element "INCLUDE">
<![%refsection.element;[
<!ELEMENT refsection %ho; (refsectioninfo?, (%refsect.title.content;),
  (((%refcomponent.mix;)+,
 refsection*) | refsection+))>
<!--end of refsection.element-->]]>

<!ENTITY % refsection.attlist "INCLUDE">
<![%refsection.attlist;[
<!ATTLIST refsection
  %status.attrib;
  %common.attrib;
  %refsection.role.attrib;
  %local.refsection.attrib;
>
<!--end of refsection.attlist-->]]>
<!--end of refsection.module-->]]>
```

```
<!ENTITY % refsect1.module "INCLUDE">
<![%refsect1.module;[
<!ENTITY % local.refsect1.attrib "">
<!ENTITY % refsect1.role.attrib "%role.attrib;">

<!ENTITY % refsect1.element "INCLUDE">
<![%refsect1.element;[
<!ELEMENT refsect1 %ho; (refsect1info?, (%refsect.title.content;),
  (((%refcomponent.mix;)+, refsect2*) | refsect2+))>
<!--end of refsect1.element-->]]>

<!ENTITY % refsect1.attlist "INCLUDE">
<![%refsect1.attlist;[
<!ATTLIST refsect1
  %status.attrib;
  %common.attrib;
  %refsect1.role.attrib;
  %local.refsect1.attrib;
>
<!--end of refsect1.attlist-->]]>
<!--end of refsect1.module-->]]>

<!ENTITY % refsect2.module "INCLUDE">
<![%refsect2.module;[
<!ENTITY % local.refsect2.attrib
 "">
<!ENTITY % refsect2.role.attrib "%role.attrib;">

<!ENTITY % refsect2.element "INCLUDE">
<![%refsect2.element;[
<!ELEMENT refsect2 %ho; (refsect2info?, (%refsect.title.content;),
 (((%refcomponent.mix;)+, refsect3*) | refsect3+))>
<!--end of refsect2.element-->]]>

<!ENTITY % refsect2.attlist "INCLUDE">
<![%refsect2.attlist;[
<!ATTLIST refsect2
  %status.attrib;
  %common.attrib;
  %refsect2.role.attrib;
  %local.refsect2.attrib;
>
<!--end of refsect2.attlist-->]]>
<!--end of refsect2.module-->]]>

<!ENTITY % refsect3.module "INCLUDE">
<![%refsect3.module;[
```

```
<!ENTITY % local.refsect3.attrib "">
<!ENTITY % refsect3.role.attrib "%role.attrib;">

<!ENTITY % refsect3.element "INCLUDE">
<![%refsect3.element;[
<!ELEMENT refsect3 %ho; (refsect3info?, (%refsect.title.content;),
 (%refcomponent.mix;)+)>
<!--end of refsect3.element-->]]>

<!ENTITY % refsect3.attlist "INCLUDE">
<![%refsect3.attlist;[
<!ATTLIST refsect3
  %status.attrib;
  %common.attrib;
  %refsect3.role.attrib;
  %local.refsect3.attrib;
>
<!--end
 of refsect3.attlist-->]]>
<!--end of refsect3.module-->]]>
<!--end of refentry.content.module-->]]>

<!-- ..... -->
<!-- Article ..... -->

<!ENTITY % article.module "INCLUDE">
<![%article.module;[
<!-- An Article is a chapter-level, stand-alone document that is often,
    but need not be, collected into a Book. -->

<!ENTITY % local.article.attrib "">
<!ENTITY % article.role.attrib "%role.attrib;">

<!ENTITY % article.element "INCLUDE">
<![%article.element;[
<!ELEMENT article %ho; ((%div.title.content;)?, articleinfo?, tocchap?, lot*,
   (%bookcomponent.content;),
   ((%nav.class;) | (%appendix.class;) | ackno)*)
  %ubiq.inclusion;>
<!--end of article.element-->]]>

<!-- Class: Indicates the type of a particular article;
  all articles have the same structure and general purpose.
  No default. -->
<!-- ParentBook: ID of the
 enclosing Book -->
```

```
<!ENTITY % article.attlist "INCLUDE">
<![%article.attlist;[
<!ATTLIST article
  class  (journalarticle
    |productsheet
    |whitepaper
    |techreport
                        |specification
    |faq)  #IMPLIED
  parentbook IDREF  #IMPLIED
  %status.attrib;
  %common.attrib;
  %article.role.attrib;
  %local.article.attrib;
>
<!--end of article.attlist-->]]>
<!--end of article.module-->]]>

<!-- End of DocBook document hierarchy module V4.4 ..... -->
<!-- ..... -->
```

Found in path(s):
* /docbook-xml-4-5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-4.4/dbhierx.mod
No license file was found, but licenses were detected in source scan.

```
<!-- ..... -->
<!-- DocBook XML character entities module V4.1.2 ..... -->
<!-- File dbcentx.mod ..... -->

<!-- Copyright 1992-2000 HaL Computer Systems, Inc.,
   O'Reilly & Associates, Inc., ArborText, Inc., Fujitsu Software
   Corporation, Norman Walsh, and the Organization for the Advancement
   of Structured Information Standards (OASIS).

   $Id: dbcentx.mod,v 1.10 2000/08/27 15:12:42 nwalsh Exp $

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 is provided "as is" without expressed or implied
   warranty.

   If you modify the DocBook XML DTD in any way, except for declaring and
   referencing additional sets of general entities and declaring
   additional notations, label your DTD as a variant of DocBook.  See
```

```
   the maintenance documentation for more information.

   Please direct all questions, bug reports, or suggestions for
   changes to the docbook@lists.oasis-open.org mailing list. For more
   information, see http://www.oasis-open.org/docbook/.
-->

<!-- ..................................................................... -->

<!-- This module contains the entity declarations for the standard ISO
   entity sets used by DocBook.

   In DTD driver files referring to this module, please use an entity
   declaration that uses the public identifier shown below:

   <!ENTITY % dbcent PUBLIC
   "-//OASIS//ENTITIES DocBook XML Character Entities V4.1.2//EN"
   "dbcentx.mod">
   %dbcent;

   See
 the documentation for detailed information on the parameter
   entity and module scheme used in DocBook, customizing DocBook and
   planning for interchange, and changes made since the last release
   of DocBook.
-->

<!-- ..................................................................... -->

<!ENTITY % ISOamsa.module "INCLUDE">
<![%ISOamsa.module;[
<!ENTITY % ISOamsa PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Arrow Relations//EN//XML"
"ent/iso-amsa.ent">
%ISOamsa;
<!--end of ISOamsa.module-->]]>

<!ENTITY % ISOamsb.module "INCLUDE">
<![%ISOamsb.module;[
<!ENTITY % ISOamsb PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Binary Operators//EN//XML"
"ent/iso-amsb.ent">
%ISOamsb;
<!--end of ISOamsb.module-->]]>

<!ENTITY % ISOamsc.module "INCLUDE">
<![%ISOamsc.module;[
<!ENTITY % ISOamsc PUBLIC
```

"ISO 8879:1986//ENTITIES Added Math Symbols: Delimiters//EN//XML"
"ent/iso-amsc.ent">
%ISOamsc;
<!--end of ISOamsc.module-->]]>

<!ENTITY % ISOamsn.module "INCLUDE">
<![%ISOamsn.module;[
<!ENTITY
 % ISOamsn PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Negated Relations//EN//XML"
"ent/iso-amsn.ent">
%ISOamsn;
<!--end of ISOamsn.module-->]]>

<!ENTITY % ISOamso.module "INCLUDE">
<![%ISOamso.module;[
<!ENTITY % ISOamso PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Ordinary//EN//XML"
"ent/iso-amso.ent">
%ISOamso;
<!--end of ISOamso.module-->]]>

<!ENTITY % ISOamsr.module "INCLUDE">
<![%ISOamsr.module;[
<!ENTITY % ISOamsr PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Relations//EN//XML"
"ent/iso-amsr.ent">
%ISOamsr;
<!--end of ISOamsr.module-->]]>

<!ENTITY % ISObox.module "INCLUDE">
<![%ISObox.module;[
<!ENTITY % ISObox PUBLIC
"ISO 8879:1986//ENTITIES Box and Line Drawing//EN//XML"
"ent/iso-box.ent">
%ISObox;
<!--end of ISObox.module-->]]>

<!ENTITY % ISOcyr1.module "INCLUDE">
<![%ISOcyr1.module;[
<!ENTITY % ISOcyr1 PUBLIC
"ISO 8879:1986//ENTITIES Russian Cyrillic//EN//XML"
"ent/iso-cyr1.ent">
%ISOcyr1;
<!--end of ISOcyr1.module-->]]>

<!ENTITY

```
 % ISOcyr2.module "INCLUDE">
<![%ISOcyr2.module;[
<!ENTITY % ISOcyr2 PUBLIC
"ISO 8879:1986//ENTITIES Non-Russian Cyrillic//EN//XML"
"ent/iso-cyr2.ent">
%ISOcyr2;
<!--end of ISOcyr2.module-->]]>

<!ENTITY % ISOdia.module "INCLUDE">
<![%ISOdia.module;[
<!ENTITY % ISOdia PUBLIC
"ISO 8879:1986//ENTITIES Diacritical Marks//EN//XML"
"ent/iso-dia.ent">
%ISOdia;
<!--end of ISOdia.module-->]]>

<!ENTITY % ISOgrk1.module "INCLUDE">
<![%ISOgrk1.module;[
<!ENTITY % ISOgrk1 PUBLIC
"ISO 8879:1986//ENTITIES Greek Letters//EN//XML"
"ent/iso-grk1.ent">
%ISOgrk1;
<!--end of ISOgrk1.module-->]]>

<!ENTITY % ISOgrk2.module "INCLUDE">
<![%ISOgrk2.module;[
<!ENTITY % ISOgrk2 PUBLIC
"ISO 8879:1986//ENTITIES Monotoniko Greek//EN//XML"
"ent/iso-grk2.ent">
%ISOgrk2;
<!--end of ISOgrk2.module-->]]>

<!ENTITY % ISOgrk3.module "INCLUDE">
<![%ISOgrk3.module;[
<!ENTITY % ISOgrk3 PUBLIC
"ISO 8879:1986//ENTITIES Greek Symbols//EN//XML"
"ent/iso-grk3.ent">
%ISOgrk3;
<!--end of ISOgrk3.module-->]]>

<!ENTITY % ISOgrk4.module
 "INCLUDE">
<![%ISOgrk4.module;[
<!ENTITY % ISOgrk4 PUBLIC
"ISO 8879:1986//ENTITIES Alternative Greek Symbols//EN//XML"
"ent/iso-grk4.ent">
%ISOgrk4;
<!--end of ISOgrk4.module-->]]>
```

<!ENTITY % ISOlat1.module "INCLUDE">
<![%ISOlat1.module;[
<!ENTITY % ISOlat1 PUBLIC
"ISO 8879:1986//ENTITIES Added Latin 1//EN//XML"
"ent/iso-lat1.ent">
%ISOlat1;
<!--end of ISOlat1.module-->]]>

<!ENTITY % ISOlat2.module "INCLUDE">
<![%ISOlat2.module;[
<!ENTITY % ISOlat2 PUBLIC
"ISO 8879:1986//ENTITIES Added Latin 2//EN//XML"
"ent/iso-lat2.ent">
%ISOlat2;
<!--end of ISOlat2.module-->]]>

<!ENTITY % ISOnum.module "INCLUDE">
<![%ISOnum.module;[
<!ENTITY % ISOnum PUBLIC
"ISO 8879:1986//ENTITIES Numeric and Special Graphic//EN//XML"
"ent/iso-num.ent">
%ISOnum;
<!--end of ISOnum.module-->]]>

<!ENTITY % ISOpub.module "INCLUDE">
<![%ISOpub.module;[
<!ENTITY % ISOpub PUBLIC
"ISO 8879:1986//ENTITIES Publishing//EN//XML"
"ent/iso-pub.ent">
%ISOpub;
<!--end of ISOpub.module-->]]>

<!ENTITY % ISOtech.module
 "INCLUDE">
<![%ISOtech.module;[
<!ENTITY % ISOtech PUBLIC
"ISO 8879:1986//ENTITIES General Technical//EN//XML"
"ent/iso-tech.ent">
%ISOtech;
<!--end of ISOtech.module-->]]>

<!-- End of DocBook XML character entity sets module V4.1.2 ..... -->
<!-- ..... -->

Found in path(s):
* /docbook-xml-4-5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-4.1.2/dbcentx.mod

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<!-- ..... -->
<!-- DocBook XML HTML Table Module V4.4 ..... -->
<!-- File htmltblx.mod ..... -->

<!-- Copyright 2003, 2004 ArborText, Inc., Norman Walsh, Sun Microsystems,
Inc., and the Organization for the Advancement of Structured Information
Standards (OASIS).

$Id: htmltblx.mod,v 1.23 2005/01/27 13:52:00 nwalsh Exp $

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referencing additional sets of general entities and declaring
additional notations, label your DTD as a variant of DocBook. See
the maintenance documentation for more information.

Please direct all questions, bug reports, or suggestions for
changes to the docbook@lists.oasis-open.org mailing list. For more
information, see http://www.oasis-open.org/docbook/.
-->

<!-- ..... -->

<!-- This module contains the definitions for elements that are
isomorphic to the HTML elements. One could argue we should
instead have based ourselves on the XHTML Table Module, but the
HTML one is more like what browsers are likely to accept today
and users are likely to use.

This module has been developed for use with the DocBook V4.4
"union table model" in which elements and attlists common to both
models
are defined (as the union) in the CALS table module by
setting various parameter entities appropriately in this file.

In DTD driver files referring to this module, please use an entity
declaration that uses the public identifier shown below:

```
   <!ENTITY % htmltbl PUBLIC
   "-//OASIS//ELEMENTS DocBook XML HTML Tables V4.4//EN"
   "htmltblx.mod">
   %htmltbl;

   See the documentation for detailed information on the parameter
   entity and module scheme used in DocBook, customizing DocBook and
   planning for interchange, and changes made since the last release
   of DocBook.
-->

<!--======================== XHTML Tables ========================================-->

<!ENTITY % html.coreattrs
"id         ID           #IMPLIED
 class      CDATA        #IMPLIED
 style      CDATA        #IMPLIED
 title      CDATA        #IMPLIED"
 >

<!-- Does not contain lang or dir because they are in %common.attribs -->
<!ENTITY % i18n
"xml:lang    NMTOKEN
      #IMPLIED"
 >

<!ENTITY % events
"onclick     CDATA      #IMPLIED
 ondblclick  CDATA      #IMPLIED
 onmousedown CDATA      #IMPLIED
 onmouseup   CDATA      #IMPLIED
 onmouseover CDATA      #IMPLIED
 onmousemove CDATA      #IMPLIED
 onmouseout  CDATA      #IMPLIED
 onkeypress  CDATA      #IMPLIED
 onkeydown   CDATA      #IMPLIED
 onkeyup     CDATA      #IMPLIED"
 >

<!ENTITY % attrs "%html.coreattrs; %i18n; %events;">

<!ENTITY % cellhalign
 "align      (left|center|right|justify|char) #IMPLIED
  char       CDATA    #IMPLIED
  charoff    CDATA      #IMPLIED"
 >

<!ENTITY % cellvalign
```

```
 "valign     (top|middle|bottom|baseline) #IMPLIED"
 >

<!ELEMENT colgroup (col)*>
<!ELEMENT col      EMPTY>
<!ELEMENT tr       (th|td)+>
<!ELEMENT th       (%para.char.mix; | %tabentry.mix; | table | informaltable)*>
<!ELEMENT td       (%para.char.mix; | %tabentry.mix; | table | informaltable)*>

<!ATTLIST colgroup
 %attrs;
 span       CDATA       "1"
 width      CDATA
  #IMPLIED
 %cellhalign;
 %cellvalign;
 >

<!ATTLIST col
 %attrs;
 span       CDATA       "1"
 width      CDATA  #IMPLIED
 %cellhalign;
 %cellvalign;
 >

<!ATTLIST tr
 %attrs;
 %cellhalign;
 %cellvalign;
 bgcolor    CDATA       #IMPLIED
 >

<!ATTLIST th
 %attrs;
 abbr       CDATA        #IMPLIED
 axis       CDATA        #IMPLIED
 headers    IDREFS       #IMPLIED
 scope      (row|col|rowgroup|colgroup)   #IMPLIED
 rowspan    CDATA       "1"
 colspan    CDATA       "1"
 %cellhalign;
 %cellvalign;
 nowrap     (nowrap)      #IMPLIED
 bgcolor    CDATA        #IMPLIED
 width      CDATA       #IMPLIED
 height     CDATA       #IMPLIED
 >
```

```
<!ATTLIST td
 %attrs;
 abbr       CDATA        #IMPLIED
 axis       CDATA        #IMPLIED
 headers    IDREFS       #IMPLIED
 scope      (row|col|rowgroup|colgroup)   #IMPLIED
 rowspan    CDATA      "1"
 colspan    CDATA      "1"
 %cellhalign;
 %cellvalign;
 nowrap     (nowrap)     #IMPLIED
  bgcolor    CDATA       #IMPLIED
 width      CDATA      #IMPLIED
 height     CDATA      #IMPLIED
 >

<!-- ================================================== -->
<!--       Set up to read in the CALS model configured to
         merge with the XHTML table model              -->
<!-- ================================================== -->

<!ENTITY % tables.role.attrib "%role.attrib;">

<!-- Add label and role attributes to table and informaltable -->
<!ENTITY % bodyatt "
  floatstyle CDATA   #IMPLIED
  rowheader (firstcol|norowheader) #IMPLIED
            %label.attrib;"
>

<!-- Add common attributes to Table, TGroup, TBody, THead, TFoot, Row,
   EntryTbl, and Entry (and InformalTable element). -->

<!ENTITY % secur "
 %common.attrib;
 class      CDATA        #IMPLIED
 style      CDATA        #IMPLIED
 title      CDATA        #IMPLIED
 %i18n;
 %events;
 %tables.role.attrib;">

<!ENTITY % common.table.attribs
 "%bodyatt;
 %secur;">

<!-- Content
```

```
 model for Table (that also allows HTML tables) -->
<!ENTITY % tbl.table.mdl
 "((blockinfo?,
        (%formalobject.title.content;),
        (%ndxterm.class;)*,
        textobject*,
        (graphic+|mediaobject+|tgroup+))
       |(caption, (col*|colgroup*), thead?, tfoot?, (tbody+|tr+)))">

<!ENTITY % informal.tbl.table.mdl
 "(textobject*,
        (graphic+|mediaobject+|tgroup+))
       | ((col*|colgroup*), thead?, tfoot?, (tbody+|tr+))">

<!-- Attributes for Table (including HTML ones) -->

<!-- N.B. rules = (none | groups | rows | cols | all) but it can't be spec'd -->
<!-- that way because 'all' already occurs in a different enumeration in -->
<!-- CALS tables (frame). -->

<!ENTITY % tbl.table.att        '
  tabstyle    CDATA          #IMPLIED
  tocentry    %yesorno.attvals;       #IMPLIED
  shortentry  %yesorno.attvals;       #IMPLIED
  orient      (port|land)    #IMPLIED
  pgwide      %yesorno.attvals;       #IMPLIED
  summary     CDATA
   #IMPLIED
  width       CDATA        #IMPLIED
  border      CDATA        #IMPLIED
  rules       CDATA  #IMPLIED
  cellspacing CDATA        #IMPLIED
  cellpadding CDATA        #IMPLIED
  align       (left|center|right)   #IMPLIED
  bgcolor     CDATA         #IMPLIED
'>

<!ENTITY % tbl.frame.attval "void|above|below|hsides|lhs|rhs|vsides|box|border|
top|bottom|topbot|all|sides|none">

<!-- Allow either objects or inlines; beware of REs between elements. -->
<!ENTITY % tbl.entry.mdl "%para.char.mix; | %tabentry.mix;">

<!-- thead, tfoot, and tbody are defined in both table models,
   so we set up parameter entities to define union models for them
-->

<!ENTITY % tbl.hdft.mdl        "(tr+|(colspec*,row+))">
```

<!ENTITY % tbl.tbody.mdl "(tr+|row+)">
<!ENTITY % tbl.valign.attval "top|middle|bottom|baseline">

<!-- End of DocBook XML HTML Table Module V4.4 ..... -->
<!-- ..... -->

Found
in path(s):
* /docbook-xml-4-5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-4.4/htmltblx.mod
No license file was found, but licenses were detected in source scan.

03 13:23:24Z nwalsh $

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changes to the docbook@lists.oasis

Found in path(s):
* /docbook-xml-4-5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-4.5/calstblx.dtd
No license file was found, but licenses were detected in source scan.

<!-- ..... -->
<!-- DocBook document hierarchy module V4.2 ..... -->
<!-- File dbhierx.mod ..... -->

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Organization for the Advancement of Structured Information
Standards (OASIS).

$Id: dbhierx.mod,v 1.19 2002/07/17 15:26:16 nwalsh Exp $

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-->

<!-- ..... -->

<!-- This module contains the definitions for the overall document hierarchies of DocBook documents. It covers computer documentation manuals and manual fragments, as well as reference entries (such as man pages) and technical journals or anthologies containing articles.

This module depends on the DocBook information pool module. All elements and entities referenced but not defined here are assumed to be defined in the information pool module.

In DTD driver files referring to this module, please use an entity declaration that uses the public identifier shown below:

<!ENTITY % dbhier PUBLIC
"-//OASIS//ELEMENTS DocBook Document Hierarchy V4.2//EN"
"dbhierx.mod">
%dbhier;

See the documentation for detailed information on the parameter entity and module scheme used in DocBook, customizing DocBook and planning for interchange, and changes made since the last release of DocBook.
-->

<!-- ..... -->
<!-- Entities for module inclusions ..... -->

<!ENTITY % dbhier.redecl.module "IGNORE">
<!ENTITY % dbhier.redecl2.module "IGNORE">

<!-- ..... -->

```
<!-- Entities for element classes .....................................
 -->

<!ENTITY % local.appendix.class "">
<!ENTITY % appendix.class "appendix %local.appendix.class;">

<!ENTITY % local.article.class "">
<!ENTITY % article.class "article %local.article.class;">

<!ENTITY % local.book.class "">
<!ENTITY % book.class  "book %local.book.class;">

<!ENTITY % local.chapter.class "">
<!ENTITY % chapter.class "chapter %local.chapter.class;">

<!ENTITY % local.index.class "">
<!ENTITY % index.class  "index|setindex %local.index.class;">

<!ENTITY % local.refentry.class "">
<!ENTITY % refentry.class "refentry %local.refentry.class;">

<!ENTITY % local.section.class "">
<!ENTITY % section.class "section %local.section.class;">

<!ENTITY % local.nav.class "">
<!ENTITY % nav.class  "toc|lot|index|glossary|bibliography
   %local.nav.class;">

<!-- Redeclaration placeholder ..................................... -->

<!-- For redeclaring entities that are declared after this point while
   retaining their references to the entities
 that are declared before
   this point -->

<![%dbhier.redecl.module;[
<!-- Defining rdbhier here makes some buggy XML parsers happy. -->
<!ENTITY % rdbhier "">
%rdbhier;
<!--end of dbhier.redecl.module-->]]>

<!-- ..................................................................... -->
<!-- Entities for element mixtures ..................................... -->

<!-- The DocBook TC may produce an official forms module for DocBook. -->
<!-- This PE provides the hook by which it can be inserted into the DTD. -->
<!ENTITY % forms.hook "">
```

```
<!ENTITY % local.divcomponent.mix "">
<!ENTITY % divcomponent.mix
  "%list.class;  |%admon.class;
  |%linespecific.class; |%synop.class;
  |%para.class;  |%informal.class;
  |%formal.class;  |%compound.class;
  |%genobj.class;  |%descobj.class;
  |%ndxterm.class;        |beginpage
              %forms.hook;
  %local.divcomponent.mix;">

<!ENTITY % local.refcomponent.mix "">
<!ENTITY % refcomponent.mix
  "%list.class;  |%admon.class;
  |%linespecific.class; |%synop.class;
  |%para.class;  |%informal.class;
  |%formal.class;  |%compound.class;
  |%genobj.class;  |%descobj.class;
  |%ndxterm.class;
       |beginpage
  %local.refcomponent.mix;">

<!ENTITY % local.indexdivcomponent.mix "">
<!ENTITY % indexdivcomponent.mix
  "itemizedlist|orderedlist|variablelist|simplelist
  |%linespecific.class; |%synop.class;
  |%para.class;  |%informal.class;
  |anchor|remark
  |%link.char.class;
                      |beginpage
  %local.indexdivcomponent.mix;">

<!ENTITY % local.refname.char.mix "">
<!ENTITY % refname.char.mix
  "#PCDATA
  |%tech.char.class;
  %local.refname.char.mix;">

<!ENTITY % local.partcontent.mix "">
<!ENTITY % partcontent.mix
  "%appendix.class;|%chapter.class;|%nav.class;|%article.class;
  |preface|%refentry.class;|reference %local.partcontent.mix;">

<!ENTITY % local.refinline.char.mix "">
<!ENTITY % refinline.char.mix
  "#PCDATA
  |%xref.char.class; |%gen.char.class;
  |%link.char.class; |%tech.char.class;
```

```
 |%base.char.class; |%docinfo.char.class;
 |%other.char.class;
 |%ndxterm.class;
      |beginpage
 %local.refinline.char.mix;">

<!ENTITY % local.refclass.char.mix "">
<!ENTITY % refclass.char.mix
 "#PCDATA
 |application
 %local.refclass.char.mix;">

<!-- Redeclaration placeholder 2 ..... -->

<!-- For redeclaring entities that are declared after this point while
   retaining their references to the entities that are declared before
   this point -->

<![%dbhier.redecl2.module;[
<!-- Defining rdbhier2 here makes some buggy XML parsers happy. -->
<!ENTITY % rdbhier2 "">
%rdbhier2;
<!--end of dbhier.redecl2.module-->]]>

<!-- ..... -->
<!-- Entities for content models ..... -->

<!ENTITY % div.title.content
 "title, subtitle?, titleabbrev?">

<!ENTITY % bookcomponent.title.content
 "title, subtitle?, titleabbrev?">

<!ENTITY % sect.title.content
 "title,
 subtitle?, titleabbrev?">

<!ENTITY % refsect.title.content
 "title, subtitle?, titleabbrev?">

<!ENTITY % bookcomponent.content
 "((%divcomponent.mix;)+,
 (sect1*|(%refentry.class;)*|simplesect*|(%section.class;)*))
 | (sect1+|(%refentry.class;)+|simplesect+|(%section.class;)+)">

<!-- ..... -->
<!-- Set and SetInfo ..... -->
```

```
<!ENTITY % set.content.module "INCLUDE">
<![%set.content.module;[
<!ENTITY % set.module "INCLUDE">
<![%set.module;[
<!ENTITY % local.set.attrib "">
<!ENTITY % set.role.attrib "%role.attrib;">

<!ENTITY % set.element "INCLUDE">
<![%set.element;[
<!ELEMENT set %ho; ((%div.title.content;)?, setinfo?, toc?, (%book.class;)+,
  setindex?)
  %ubiq.inclusion;>
<!--end of set.element-->]]>

<!-- FPI: SGML formal public identifier -->


<!ENTITY % set.attlist "INCLUDE">
<![%set.attlist;[
<!ATTLIST set
  fpi  CDATA  #IMPLIED
  %status.attrib;
  %common.attrib;
  %set.role.attrib;
  %local.set.attrib;
>
<!--end
 of set.attlist-->]]>
<!--end of set.module-->]]>

<!ENTITY % setinfo.module "INCLUDE">
<![%setinfo.module;[
<!ENTITY % local.setinfo.attrib "">
<!ENTITY % setinfo.role.attrib "%role.attrib;">

<!ENTITY % setinfo.element "INCLUDE">
<![%setinfo.element;[
<!ELEMENT setinfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of setinfo.element-->]]>

<!-- Contents: IDs of the ToC, Books, and SetIndex that comprise
  the set, in the order of their appearance -->


<!ENTITY % setinfo.attlist "INCLUDE">
<![%setinfo.attlist;[
<!ATTLIST setinfo
```

```
 contents IDREFS  #IMPLIED
 %common.attrib;
 %setinfo.role.attrib;
 %local.setinfo.attrib;
>
<!--end of setinfo.attlist-->]]>
<!--end of setinfo.module-->]]>
<!--end of set.content.module-->]]>

<!-- ..................................................................... -->
<!-- Book and BookInfo ..................................................... -->

<!ENTITY % book.content.module
 "INCLUDE">
<![%book.content.module;[
<!ENTITY % book.module "INCLUDE">
<![%book.module;[

<!ENTITY % local.book.attrib "">
<!ENTITY % book.role.attrib "%role.attrib;">

<!ENTITY % book.element "INCLUDE">
<![%book.element;[
<!ELEMENT book %ho; ((%div.title.content;)?, bookinfo?,
 (dedication | toc | lot
 | glossary | bibliography | preface
 | %chapter.class; | reference | part
 | %article.class;
 | %appendix.class;
 | %index.class;
 | colophon)*)
 %ubiq.inclusion;>
<!--end of book.element-->]]>

<!-- FPI: SGML formal public identifier -->


<!ENTITY % book.attlist "INCLUDE">
<![%book.attlist;[
<!ATTLIST book  fpi  CDATA  #IMPLIED
 %label.attrib;
 %status.attrib;
 %common.attrib;
 %book.role.attrib;
 %local.book.attrib;
>
<!--end of book.attlist-->]]>
<!--end of book.module-->]]>
```

```
<!ENTITY % bookinfo.module "INCLUDE">
<![%bookinfo.module;[
<!ENTITY % local.bookinfo.attrib "">
<!ENTITY % bookinfo.role.attrib "%role.attrib;">

<!ENTITY % bookinfo.element "INCLUDE">
<![%bookinfo.element;[
<!ELEMENT
 bookinfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of bookinfo.element-->]]>

<!-- Contents: IDs of the ToC, LoTs, Prefaces, Parts, Chapters,
  Appendixes, References, GLossary, Bibliography, and indexes
  comprising the Book, in the order of their appearance -->


<!ENTITY % bookinfo.attlist "INCLUDE">
<![%bookinfo.attlist;[
<!ATTLIST bookinfo
  contents IDREFS  #IMPLIED
  %common.attrib;
  %bookinfo.role.attrib;
  %local.bookinfo.attrib;
>
<!--end of bookinfo.attlist-->]]>
<!--end of bookinfo.module-->]]>
<!--end of book.content.module-->]]>

<!-- ..................................................................... -->
<!-- Dedication, ToC, and LoT ..... -->

<!ENTITY % dedication.module "INCLUDE">
<![%dedication.module;[
<!ENTITY % local.dedication.attrib "">
<!ENTITY % dedication.role.attrib "%role.attrib;">

<!ENTITY % dedication.element "INCLUDE">
<![%dedication.element;[
<!ELEMENT dedication %ho;
 ((%sect.title.content;)?, (%legalnotice.mix;)+)>
<!--end of dedication.element-->]]>

<!ENTITY % dedication.attlist "INCLUDE">
<![%dedication.attlist;[
<!ATTLIST dedication
  %status.attrib;
```

```
 %common.attrib;
 %dedication.role.attrib;
 %local.dedication.attrib;
>
<!--end of dedication.attlist-->]]>
<!--end of dedication.module-->]]>

<!ENTITY % colophon.module "INCLUDE">
<![ %colophon.module; [
<!ENTITY % local.colophon.attrib "">
<!ENTITY % colophon.role.attrib "%role.attrib;">

<!ENTITY % colophon.element "INCLUDE">
<![ %colophon.element; [
<!ELEMENT colophon %ho; ((%sect.title.content;)?, (%textobject.mix;)+)>
<!--end of colophon.element-->]]>

<!ENTITY % colophon.attlist "INCLUDE">
<![ %colophon.attlist; [
<!ATTLIST colophon
 %status.attrib;
 %common.attrib;
 %colophon.role.attrib;
 %local.colophon.attrib;>
<!--end of colophon.attlist-->]]>
<!--end of colophon.module-->]]>

<!ENTITY % toc.content.module "INCLUDE">
<![%toc.content.module;[
<!ENTITY % toc.module "INCLUDE">
<![%toc.module;[
<!ENTITY
 % local.toc.attrib "">
<!ENTITY % toc.role.attrib "%role.attrib;">

<!ENTITY % toc.element "INCLUDE">
<![%toc.element;[
<!ELEMENT toc %ho; (beginpage?,
 (%bookcomponent.title.content;)?,
 tocfront*,
 (tocpart | tocchap)*, tocback*)>
<!--end of toc.element-->]]>

<!ENTITY % toc.attlist "INCLUDE">
<![%toc.attlist;[
<!ATTLIST toc
 %pagenum.attrib;
 %common.attrib;
```

```
 %toc.role.attrib;
 %local.toc.attrib;
>
<!--end of toc.attlist-->]]>
<!--end of toc.module-->]]>

<!ENTITY % tocfront.module "INCLUDE">
<![%tocfront.module;[
<!ENTITY % local.tocfront.attrib "">
<!ENTITY % tocfront.role.attrib "%role.attrib;">

<!ENTITY % tocfront.element "INCLUDE">
<![%tocfront.element;[
<!ELEMENT tocfront %ho; (%para.char.mix;)*>
<!--end of tocfront.element-->]]>

<!-- to element that this entry represents -->


<!ENTITY % tocfront.attlist "INCLUDE">
<![%tocfront.attlist;[
<!ATTLIST tocfront
 %label.attrib;
 %linkend.attrib;  %pagenum.attrib;
 %common.attrib;
 %tocfront.role.attrib;
 %local.tocfront.attrib;
>
<!--end
 of tocfront.attlist-->]]>
<!--end of tocfront.module-->]]>

<!ENTITY % tocentry.module "INCLUDE">
<![%tocentry.module;[
<!ENTITY % local.tocentry.attrib "">
<!ENTITY % tocentry.role.attrib "%role.attrib;">

<!ENTITY % tocentry.element "INCLUDE">
<![%tocentry.element;[
<!ELEMENT tocentry %ho; (%para.char.mix;)*>
<!--end of tocentry.element-->]]>

<!-- to element that this entry represents -->


<!ENTITY % tocentry.attlist "INCLUDE">
<![%tocentry.attlist;[
<!ATTLIST tocentry
```

```
  %linkend.attrib;  %pagenum.attrib;
  %common.attrib;
  %tocentry.role.attrib;
  %local.tocentry.attrib;
>
<!--end of tocentry.attlist-->]]>
<!--end of tocentry.module-->]]>

<!ENTITY % tocpart.module "INCLUDE">
<![%tocpart.module;[
<!ENTITY % local.tocpart.attrib "">
<!ENTITY % tocpart.role.attrib "%role.attrib;">

<!ENTITY % tocpart.element "INCLUDE">
<![%tocpart.element;[
<!ELEMENT tocpart %ho; (tocentry+, tocchap*)>
<!--end of tocpart.element-->]]>

<!ENTITY % tocpart.attlist
 "INCLUDE">
<![%tocpart.attlist;[
<!ATTLIST tocpart
  %common.attrib;
  %tocpart.role.attrib;
  %local.tocpart.attrib;
>
<!--end of tocpart.attlist-->]]>
<!--end of tocpart.module-->]]>

<!ENTITY % tocchap.module "INCLUDE">
<![%tocchap.module;[
<!ENTITY % local.tocchap.attrib "">
<!ENTITY % tocchap.role.attrib "%role.attrib;">

<!ENTITY % tocchap.element "INCLUDE">
<![%tocchap.element;[
<!ELEMENT tocchap %ho; (tocentry+, toclevel1*)>
<!--end of tocchap.element-->]]>

<!ENTITY % tocchap.attlist "INCLUDE">
<![%tocchap.attlist;[
<!ATTLIST tocchap
  %label.attrib;
  %common.attrib;
  %tocchap.role.attrib;
  %local.tocchap.attrib;
>
<!--end of tocchap.attlist-->]]>
```

```
<!--end of tocchap.module-->]]>

<!ENTITY % toclevel1.module "INCLUDE">
<![%toclevel1.module;[
<!ENTITY % local.toclevel1.attrib "">
<!ENTITY % toclevel1.role.attrib "%role.attrib;">

<!ENTITY % toclevel1.element "INCLUDE">
<![%toclevel1.element;[
<!ELEMENT toclevel1 %ho; (tocentry+, toclevel2*)>
<!--end of toclevel1.element-->]]>

<!ENTITY
 % toclevel1.attlist "INCLUDE">
<![%toclevel1.attlist;[
<!ATTLIST toclevel1
  %common.attrib;
  %toclevel1.role.attrib;
  %local.toclevel1.attrib;
>
<!--end of toclevel1.attlist-->]]>
<!--end of toclevel1.module-->]]>

<!ENTITY % toclevel2.module "INCLUDE">
<![%toclevel2.module;[
<!ENTITY % local.toclevel2.attrib "">
<!ENTITY % toclevel2.role.attrib "%role.attrib;">

<!ENTITY % toclevel2.element "INCLUDE">
<![%toclevel2.element;[
<!ELEMENT toclevel2 %ho; (tocentry+, toclevel3*)>
<!--end of toclevel2.element-->]]>

<!ENTITY % toclevel2.attlist "INCLUDE">
<![%toclevel2.attlist;[
<!ATTLIST toclevel2
  %common.attrib;
  %toclevel2.role.attrib;
  %local.toclevel2.attrib;
>
<!--end of toclevel2.attlist-->]]>
<!--end of toclevel2.module-->]]>

<!ENTITY % toclevel3.module "INCLUDE">
<![%toclevel3.module;[
<!ENTITY % local.toclevel3.attrib "">
<!ENTITY % toclevel3.role.attrib "%role.attrib;">
```

```
<!ENTITY % toclevel3.element "INCLUDE">
<![%toclevel3.element;[
<!ELEMENT toclevel3
 %ho; (tocentry+, toclevel4*)>
<!--end of toclevel3.element-->]]>

<!ENTITY % toclevel3.attlist "INCLUDE">
<![%toclevel3.attlist;[
<!ATTLIST toclevel3
  %common.attrib;
  %toclevel3.role.attrib;
  %local.toclevel3.attrib;
>
<!--end of toclevel3.attlist-->]]>
<!--end of toclevel3.module-->]]>

<!ENTITY % toclevel4.module "INCLUDE">
<![%toclevel4.module;[
<!ENTITY % local.toclevel4.attrib "">
<!ENTITY % toclevel4.role.attrib "%role.attrib;">

<!ENTITY % toclevel4.element "INCLUDE">
<![%toclevel4.element;[
<!ELEMENT toclevel4 %ho; (tocentry+, toclevel5*)>
<!--end of toclevel4.element-->]]>

<!ENTITY % toclevel4.attlist "INCLUDE">
<![%toclevel4.attlist;[
<!ATTLIST toclevel4
  %common.attrib;
  %toclevel4.role.attrib;
  %local.toclevel4.attrib;
>
<!--end of toclevel4.attlist-->]]>
<!--end of toclevel4.module-->]]>

<!ENTITY % toclevel5.module "INCLUDE">
<![%toclevel5.module;[
<!ENTITY % local.toclevel5.attrib "">
<!ENTITY % toclevel5.role.attrib "%role.attrib;">

<!ENTITY % toclevel5.element
 "INCLUDE">
<![%toclevel5.element;[
<!ELEMENT toclevel5 %ho; (tocentry+)>
<!--end of toclevel5.element-->]]>

<!ENTITY % toclevel5.attlist "INCLUDE">
```

```
<![%toclevel5.attlist;[
<!ATTLIST toclevel5
  %common.attrib;
  %toclevel5.role.attrib;
  %local.toclevel5.attrib;
>
<!--end of toclevel5.attlist-->]]>
<!--end of toclevel5.module-->]]>

<!ENTITY % tocback.module "INCLUDE">
<![%tocback.module;[
<!ENTITY % local.tocback.attrib "">
<!ENTITY % tocback.role.attrib "%role.attrib;">

<!ENTITY % tocback.element "INCLUDE">
<![%tocback.element;[
<!ELEMENT tocback %ho; (%para.char.mix;)*>
<!--end of tocback.element-->]]>

<!-- to element that this entry represents -->


<!ENTITY % tocback.attlist "INCLUDE">
<![%tocback.attlist;[
<!ATTLIST tocback
  %label.attrib;
  %linkend.attrib;  %pagenum.attrib;
  %common.attrib;
  %tocback.role.attrib;
  %local.tocback.attrib;
>
<!--end of tocback.attlist-->]]>
<!--end of tocback.module-->]]>
<!--end of toc.content.module-->]]>

<!ENTITY % lot.content.module
 "INCLUDE">
<![%lot.content.module;[
<!ENTITY % lot.module "INCLUDE">
<![%lot.module;[
<!ENTITY % local.lot.attrib "">
<!ENTITY % lot.role.attrib "%role.attrib;">

<!ENTITY % lot.element "INCLUDE">
<![%lot.element;[
<!ELEMENT lot %ho; (beginpage?, (%bookcomponent.title.content;)?, lotentry*)>
<!--end of lot.element-->]]>
```

```
<!ENTITY % lot.attlist "INCLUDE">
<![%lot.attlist;[
<!ATTLIST lot
  %label.attrib;
  %common.attrib;
  %lot.role.attrib;
  %local.lot.attrib;
>
<!--end of lot.attlist-->]]>
<!--end of lot.module-->]]>

<!ENTITY % lotentry.module "INCLUDE">
<![%lotentry.module;[
<!ENTITY % local.lotentry.attrib "">
<!ENTITY % lotentry.role.attrib "%role.attrib;">

<!ENTITY % lotentry.element "INCLUDE">
<![%lotentry.element;[
<!ELEMENT lotentry %ho; (%para.char.mix;)*>
<!--end of lotentry.element-->]]>

<!-- SrcCredit: Information about the source of the entry,
  as for a list of illustrations -->
<!-- linkend: to element that this entry represents-->
<!ENTITY % lotentry.attlist "INCLUDE">
<![%lotentry.attlist;[
<!ATTLIST
 lotentry
  %linkend.attrib;
  %pagenum.attrib;
  srccredit CDATA  #IMPLIED
  %common.attrib;
  %lotentry.role.attrib;
  %local.lotentry.attrib;
>
<!--end of lotentry.attlist-->]]>
<!--end of lotentry.module-->]]>
<!--end of lot.content.module-->]]>

<!-- ..................................................................... -->
<!-- Appendix, Chapter, Part, Preface, Reference, PartIntro ..... -->

<!ENTITY % appendix.module "INCLUDE">
<![%appendix.module;[
<!ENTITY % local.appendix.attrib "">
<!ENTITY % appendix.role.attrib "%role.attrib;">

<!ENTITY % appendix.element "INCLUDE">
```

```
<![%appendix.element;[
<!ELEMENT appendix %ho; (beginpage?,
                appendixinfo?,
                (%bookcomponent.title.content;),
                (%nav.class;)*,
                tocchap?,
                (%bookcomponent.content;),
                (%nav.class;)*)
  %ubiq.inclusion;>
<!--end of appendix.element-->]]>

<!ENTITY
 % appendix.attlist "INCLUDE">
<![%appendix.attlist;[
<!ATTLIST appendix
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %appendix.role.attrib;
  %local.appendix.attrib;
>
<!--end of appendix.attlist-->]]>
<!--end of appendix.module-->]]>

<!ENTITY % chapter.module "INCLUDE">
<![%chapter.module;[
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">

<!ENTITY % chapter.element "INCLUDE">
<![%chapter.element;[
<!ELEMENT chapter %ho; (beginpage?,
                chapterinfo?,
                (%bookcomponent.title.content;),
                (%nav.class;)*,
                tocchap?,
                (%bookcomponent.content;),
                (%nav.class;)*)
  %ubiq.inclusion;>
<!--end of chapter.element-->]]>

<!ENTITY % chapter.attlist "INCLUDE">
<![%chapter.attlist;[
<!ATTLIST chapter
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %chapter.role.attrib;
```

```
  %local.chapter.attrib;
>
<!--end of chapter.attlist-->]]>
<!--end of
 chapter.module-->]]>

<!ENTITY % part.module "INCLUDE">
<![%part.module;[

<!-- Note that Part was to have its content model reduced in V4.2.  This
change will not be made after all. -->

<!ENTITY % local.part.attrib "">
<!ENTITY % part.role.attrib "%role.attrib;">

<!ENTITY % part.element "INCLUDE">
<![%part.element;[
<!ELEMENT part %ho; (beginpage?,
            partinfo?, (%bookcomponent.title.content;), partintro?,
  (%partcontent.mix;)+)
  %ubiq.inclusion;>
<!--end of part.element-->]]>

<!ENTITY % part.attlist "INCLUDE">
<![%part.attlist;[
<!ATTLIST part
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %part.role.attrib;
  %local.part.attrib;
>
<!--end of part.attlist-->]]>
<!--ELEMENT PartIntro (defined below)-->
<!--end of part.module-->]]>

<!ENTITY % preface.module "INCLUDE">
<![%preface.module;[
<!ENTITY % local.preface.attrib "">
<!ENTITY % preface.role.attrib "%role.attrib;">

<!ENTITY % preface.element "INCLUDE">
<![%preface.element;[
<!ELEMENT preface %ho; (beginpage?,
                prefaceinfo?,
               (%bookcomponent.title.content;),
               (%nav.class;)*,
               tocchap?,
```

```
                (%bookcomponent.content;),
                (%nav.class;)*)
  %ubiq.inclusion;>
<!--end of preface.element-->]]>

<!ENTITY % preface.attlist "INCLUDE">
<![%preface.attlist;[
<!ATTLIST preface
  %status.attrib;
  %common.attrib;
  %preface.role.attrib;
  %local.preface.attrib;
>
<!--end of preface.attlist-->]]>
<!--end of preface.module-->]]>

<!ENTITY % reference.module "INCLUDE">
<![%reference.module;[
<!ENTITY % local.reference.attrib "">
<!ENTITY % reference.role.attrib "%role.attrib;">

<!ENTITY % reference.element "INCLUDE">
<![%reference.element;[
<!ELEMENT reference %ho; (beginpage?,
                referenceinfo?,
                (%bookcomponent.title.content;), partintro?,
                (%refentry.class;)+)
  %ubiq.inclusion;>
<!--end of reference.element-->]]>

<!ENTITY % reference.attlist
 "INCLUDE">
<![%reference.attlist;[
<!ATTLIST reference
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %reference.role.attrib;
  %local.reference.attrib;
>
<!--end of reference.attlist-->]]>
<!--ELEMENT PartIntro (defined below)-->
<!--end of reference.module-->]]>

<!ENTITY % partintro.module "INCLUDE">
<![%partintro.module;[
<!ENTITY % local.partintro.attrib "">
<!ENTITY % partintro.role.attrib "%role.attrib;">
```

```
<!ENTITY % partintro.element "INCLUDE">
<![%partintro.element;[
<!ELEMENT partintro %ho; ((%div.title.content;)?, (%bookcomponent.content;))
  %ubiq.inclusion;>
<!--end of partintro.element-->]]>

<!ENTITY % partintro.attlist "INCLUDE">
<![%partintro.attlist;[
<!ATTLIST partintro
  %label.attrib;
  %common.attrib;
  %partintro.role.attrib;
  %local.partintro.attrib;
>
<!--end of partintro.attlist-->]]>
<!--end of partintro.module-->]]>

<!-- ..... -->
<!-- Other Info elements .....
 -->

<!ENTITY % appendixinfo.module "INCLUDE">
<![ %appendixinfo.module; [
<!ENTITY % local.appendixinfo.attrib "">
<!ENTITY % appendixinfo.role.attrib "%role.attrib;">

<!ENTITY % appendixinfo.element "INCLUDE">
<![ %appendixinfo.element; [
<!ELEMENT appendixinfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of appendixinfo.element-->]]>

<!ENTITY % appendixinfo.attlist "INCLUDE">
<![ %appendixinfo.attlist; [
<!ATTLIST appendixinfo
  %common.attrib;
  %appendixinfo.role.attrib;
  %local.appendixinfo.attrib;
>
<!--end of appendixinfo.attlist-->]]>
<!--end of appendixinfo.module-->]]>

<!ENTITY % bibliographyinfo.module "INCLUDE">
<![ %bibliographyinfo.module; [
<!ENTITY % local.bibliographyinfo.attrib "">
<!ENTITY % bibliographyinfo.role.attrib "%role.attrib;">
```

```
<!ENTITY % bibliographyinfo.element "INCLUDE">
<![ %bibliographyinfo.element; [
<!ELEMENT bibliographyinfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of bibliographyinfo.element-->]]>

<!ENTITY
 % bibliographyinfo.attlist "INCLUDE">
<![ %bibliographyinfo.attlist; [
<!ATTLIST bibliographyinfo
  %common.attrib;
  %bibliographyinfo.role.attrib;
  %local.bibliographyinfo.attrib;
>
<!--end of bibliographyinfo.attlist-->]]>
<!--end of bibliographyinfo.module-->]]>

<!ENTITY % chapterinfo.module "INCLUDE">
<![ %chapterinfo.module; [
<!ENTITY % local.chapterinfo.attrib "">
<!ENTITY % chapterinfo.role.attrib "%role.attrib;">

<!ENTITY % chapterinfo.element "INCLUDE">
<![ %chapterinfo.element; [
<!ELEMENT chapterinfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of chapterinfo.element-->]]>

<!ENTITY % chapterinfo.attlist "INCLUDE">
<![ %chapterinfo.attlist; [
<!ATTLIST chapterinfo
  %common.attrib;
  %chapterinfo.role.attrib;
  %local.chapterinfo.attrib;
>
<!--end of chapterinfo.attlist-->]]>
<!--end of chapterinfo.module-->]]>

<!ENTITY % glossaryinfo.module "INCLUDE">
<![ %glossaryinfo.module; [
<!ENTITY % local.glossaryinfo.attrib "">
<!ENTITY % glossaryinfo.role.attrib
 "%role.attrib;">

<!ENTITY % glossaryinfo.element "INCLUDE">
<![ %glossaryinfo.element; [
<!ELEMENT glossaryinfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
```

```
<!--end of glossaryinfo.element-->]]>

<!ENTITY % glossaryinfo.attlist "INCLUDE">
<![ %glossaryinfo.attlist; [
<!ATTLIST glossaryinfo
  %common.attrib;
  %glossaryinfo.role.attrib;
  %local.glossaryinfo.attrib;
>
<!--end of glossaryinfo.attlist-->]]>
<!--end of glossaryinfo.module-->]]>

<!ENTITY % indexinfo.module "INCLUDE">
<![ %indexinfo.module; [
<!ENTITY % local.indexinfo.attrib "">
<!ENTITY % indexinfo.role.attrib "%role.attrib;">

<!ENTITY % indexinfo.element "INCLUDE">
<![ %indexinfo.element; [
<!ELEMENT indexinfo %ho; ((%info.class;)+)>
<!--end of indexinfo.element-->]]>

<!ENTITY % indexinfo.attlist "INCLUDE">
<![ %indexinfo.attlist; [
<!ATTLIST indexinfo
  %common.attrib;
  %indexinfo.role.attrib;
  %local.indexinfo.attrib;
>
<!--end of indexinfo.attlist-->]]>
<!--end of indexinfo.module-->]]>

<!ENTITY
 % setindexinfo.module "INCLUDE">
<![ %setindexinfo.module; [
<!ENTITY % local.setindexinfo.attrib "">
<!ENTITY % setindexinfo.role.attrib "%role.attrib;">

<!ENTITY % setindexinfo.element "INCLUDE">
<![ %setindexinfo.element; [
<!ELEMENT setindexinfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of setindexinfo.element-->]]>

<!ENTITY % setindexinfo.attlist "INCLUDE">
<![ %setindexinfo.attlist; [
<!ATTLIST setindexinfo
  %common.attrib;
```

```
 %setindexinfo.role.attrib;
 %local.setindexinfo.attrib;
>
<!--end of setindexinfo.attlist-->]]>
<!--end of setindexinfo.module-->]]>

<!ENTITY % partinfo.module "INCLUDE">
<![ %partinfo.module; [
<!ENTITY % local.partinfo.attrib "">
<!ENTITY % partinfo.role.attrib "%role.attrib;">

<!ENTITY % partinfo.element "INCLUDE">
<![ %partinfo.element; [
<!ELEMENT partinfo %ho; ((%info.class;)+)
 %beginpage.exclusion;>
<!--end of partinfo.element-->]]>

<!ENTITY % partinfo.attlist "INCLUDE">
<![ %partinfo.attlist; [
<!ATTLIST partinfo
 %common.attrib;
 %partinfo.role.attrib;
 %local.partinfo.attrib;
>
<!--end
 of partinfo.attlist-->]]>
<!--end of partinfo.module-->]]>

<!ENTITY % prefaceinfo.module "INCLUDE">
<![ %prefaceinfo.module; [
<!ENTITY % local.prefaceinfo.attrib "">
<!ENTITY % prefaceinfo.role.attrib "%role.attrib;">

<!ENTITY % prefaceinfo.element "INCLUDE">
<![ %prefaceinfo.element; [
<!ELEMENT prefaceinfo %ho; ((%info.class;)+)
 %beginpage.exclusion;>
<!--end of prefaceinfo.element-->]]>

<!ENTITY % prefaceinfo.attlist "INCLUDE">
<![ %prefaceinfo.attlist; [
<!ATTLIST prefaceinfo
 %common.attrib;
 %prefaceinfo.role.attrib;
 %local.prefaceinfo.attrib;
>
<!--end of prefaceinfo.attlist-->]]>
<!--end of prefaceinfo.module-->]]>
```

```
<!ENTITY % refentryinfo.module "INCLUDE">
<![ %refentryinfo.module; [
<!ENTITY % local.refentryinfo.attrib "">
<!ENTITY % refentryinfo.role.attrib "%role.attrib;">

<!ENTITY % refentryinfo.element "INCLUDE">
<![ %refentryinfo.element; [
<!ELEMENT refentryinfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end
 of refentryinfo.element-->]]>

<!ENTITY % refentryinfo.attlist "INCLUDE">
<![ %refentryinfo.attlist; [
<!ATTLIST refentryinfo
  %common.attrib;
  %refentryinfo.role.attrib;
  %local.refentryinfo.attrib;
>
<!--end of refentryinfo.attlist-->]]>
<!--end of refentryinfo.module-->]]>

<!ENTITY % refsectioninfo.module "INCLUDE">
<![ %refsectioninfo.module; [
<!ENTITY % local.refsectioninfo.attrib "">
<!ENTITY % refsectioninfo.role.attrib "%role.attrib;">

<!ENTITY % refsectioninfo.element "INCLUDE">
<![ %refsectioninfo.element; [
<!ELEMENT refsectioninfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of refsectioninfo.element-->]]>

<!ENTITY % refsectioninfo.attlist "INCLUDE">
<![ %refsectioninfo.attlist; [
<!ATTLIST refsectioninfo
  %common.attrib;
  %refsectioninfo.role.attrib;
  %local.refsectioninfo.attrib;
>
<!--end of refsectioninfo.attlist-->]]>
<!--end of refsectioninfo.module-->]]>

<!ENTITY % refsect1info.module "INCLUDE">
<![ %refsect1info.module;
 [
<!ENTITY % local.refsect1info.attrib "">
```

```
<!ENTITY % refsect1info.role.attrib "%role.attrib;">

<!ENTITY % refsect1info.element "INCLUDE">
<![ %refsect1info.element; [
<!ELEMENT refsect1info %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of refsect1info.element-->]]>

<!ENTITY % refsect1info.attlist "INCLUDE">
<![ %refsect1info.attlist; [
<!ATTLIST refsect1info
  %common.attrib;
  %refsect1info.role.attrib;
  %local.refsect1info.attrib;
>
<!--end of refsect1info.attlist-->]]>
<!--end of refsect1info.module-->]]>

<!ENTITY % refsect2info.module "INCLUDE">
<![ %refsect2info.module; [
<!ENTITY % local.refsect2info.attrib "">
<!ENTITY % refsect2info.role.attrib "%role.attrib;">

<!ENTITY % refsect2info.element "INCLUDE">
<![ %refsect2info.element; [
<!ELEMENT refsect2info %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of refsect2info.element-->]]>

<!ENTITY % refsect2info.attlist "INCLUDE">
<![ %refsect2info.attlist; [
<!ATTLIST refsect2info
  %common.attrib;
  %refsect2info.role.attrib;
  %local.refsect2info.attrib;
>
<!--end
 of refsect2info.attlist-->]]>
<!--end of refsect2info.module-->]]>

<!ENTITY % refsect3info.module "INCLUDE">
<![ %refsect3info.module; [
<!ENTITY % local.refsect3info.attrib "">
<!ENTITY % refsect3info.role.attrib "%role.attrib;">

<!ENTITY % refsect3info.element "INCLUDE">
<![ %refsect3info.element; [
<!ELEMENT refsect3info %ho; ((%info.class;)+)
```

```
 %beginpage.exclusion;>
<!--end of refsect3info.element-->]]>

<!ENTITY % refsect3info.attlist "INCLUDE">
<![ %refsect3info.attlist; [
<!ATTLIST refsect3info
 %common.attrib;
 %refsect3info.role.attrib;
 %local.refsect3info.attrib;
>
<!--end of refsect3info.attlist-->]]>
<!--end of refsect3info.module-->]]>

<!ENTITY % refsynopsisdivinfo.module "INCLUDE">
<![ %refsynopsisdivinfo.module; [
<!ENTITY % local.refsynopsisdivinfo.attrib "">
<!ENTITY % refsynopsisdivinfo.role.attrib "%role.attrib;">

<!ENTITY % refsynopsisdivinfo.element "INCLUDE">
<![ %refsynopsisdivinfo.element;
 [
<!ELEMENT refsynopsisdivinfo %ho; ((%info.class;)+)
 %beginpage.exclusion;>
<!--end of refsynopsisdivinfo.element-->]]>

<!ENTITY % refsynopsisdivinfo.attlist "INCLUDE">
<![ %refsynopsisdivinfo.attlist; [
<!ATTLIST refsynopsisdivinfo
 %common.attrib;
 %refsynopsisdivinfo.role.attrib;
 %local.refsynopsisdivinfo.attrib;
>
<!--end of refsynopsisdivinfo.attlist-->]]>
<!--end of refsynopsisdivinfo.module-->]]>

<!ENTITY % referenceinfo.module "INCLUDE">
<![ %referenceinfo.module; [
<!ENTITY % local.referenceinfo.attrib "">
<!ENTITY % referenceinfo.role.attrib "%role.attrib;">

<!ENTITY % referenceinfo.element "INCLUDE">
<![ %referenceinfo.element; [
<!ELEMENT referenceinfo %ho; ((%info.class;)+)
 %beginpage.exclusion;>
<!--end of referenceinfo.element-->]]>

<!ENTITY % referenceinfo.attlist "INCLUDE">
<![ %referenceinfo.attlist; [
```

```
<!ATTLIST referenceinfo
  %common.attrib;
  %referenceinfo.role.attrib;
  %local.referenceinfo.attrib;
>
<!--end of referenceinfo.attlist--]]>
<!--end
 of referenceinfo.module--]]>

<!ENTITY % local.sect1info.attrib "">
<!ENTITY % sect1info.role.attrib "%role.attrib;">

<!ENTITY % sect1info.element "INCLUDE">
<![%sect1info.element;[
<!ELEMENT sect1info %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of sect1info.element--]]>

<!ENTITY % sect1info.attlist "INCLUDE">
<![%sect1info.attlist;[
<!ATTLIST sect1info
  %common.attrib;
  %sect1info.role.attrib;
  %local.sect1info.attrib;
>
<!--end of sect1info.attlist--]]>

<!ENTITY % local.sect2info.attrib "">
<!ENTITY % sect2info.role.attrib "%role.attrib;">

<!ENTITY % sect2info.element "INCLUDE">
<![%sect2info.element;[
<!ELEMENT sect2info %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of sect2info.element--]]>

<!ENTITY % sect2info.attlist "INCLUDE">
<![%sect2info.attlist;[
<!ATTLIST sect2info
  %common.attrib;
  %sect2info.role.attrib;
  %local.sect2info.attrib;
>
<!--end of sect2info.attlist--]]>

<!ENTITY % local.sect3info.attrib "">
<!ENTITY % sect3info.role.attrib
```

```
 "%role.attrib;">

<!ENTITY % sect3info.element "INCLUDE">
<![%sect3info.element;[
<!ELEMENT sect3info %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of sect3info.element-->]]>

<!ENTITY % sect3info.attlist "INCLUDE">
<![%sect3info.attlist;[
<!ATTLIST sect3info
  %common.attrib;
  %sect3info.role.attrib;
  %local.sect3info.attrib;
>
<!--end of sect3info.attlist-->]]>

<!ENTITY % local.sect4info.attrib "">
<!ENTITY % sect4info.role.attrib "%role.attrib;">

<!ENTITY % sect4info.element "INCLUDE">
<![%sect4info.element;[
<!ELEMENT sect4info %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of sect4info.element-->]]>

<!ENTITY % sect4info.attlist "INCLUDE">
<![%sect4info.attlist;[
<!ATTLIST sect4info
  %common.attrib;
  %sect4info.role.attrib;
  %local.sect4info.attrib;
>
<!--end of sect4info.attlist-->]]>

<!ENTITY % local.sect5info.attrib "">
<!ENTITY % sect5info.role.attrib "%role.attrib;">

<!ENTITY % sect5info.element "INCLUDE">
<![%sect5info.element;[
<!ELEMENT sect5info
 %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of sect5info.element-->]]>

<!ENTITY % sect5info.attlist "INCLUDE">
<![%sect5info.attlist;[
<!ATTLIST sect5info
```

```
 %common.attrib;
 %sect5info.role.attrib;
 %local.sect5info.attrib;
>
<!--end of sect5info.attlist-->]]>

<!-- ..... -->
<!-- Section (parallel to Sect*) ..... -->

<!ENTITY % section.content.module "INCLUDE">
<![ %section.content.module; [
<!ENTITY % section.module "INCLUDE">
<![ %section.module; [
<!ENTITY % local.section.attrib "">
<!ENTITY % section.role.attrib "%role.attrib;">

<!ENTITY % section.element "INCLUDE">
<![ %section.element; [
<!ELEMENT section %ho; (sectioninfo?,
  (%sect.title.content;),
  (%nav.class;)*,
  (((%divcomponent.mix;)+,
    ((%refentry.class;)*|(%section.class;)*|simplesect*))
   | (%refentry.class;)+|(%section.class;)+|simplesect+),
  (%nav.class;)*)
 %ubiq.inclusion;>
<!--end
 of section.element-->]]>

<!ENTITY % section.attlist "INCLUDE">
<![ %section.attlist; [
<!ATTLIST section
 %label.attrib;
 %status.attrib;
 %common.attrib;
 %section.role.attrib;
 %local.section.attrib;
>
<!--end of section.attlist-->]]>
<!--end of section.module-->]]>

<!ENTITY % sectioninfo.module "INCLUDE">
<![ %sectioninfo.module; [
<!ENTITY % sectioninfo.role.attrib "%role.attrib;">
<!ENTITY % local.sectioninfo.attrib "">

<!ENTITY % sectioninfo.element "INCLUDE">
<![ %sectioninfo.element; [
```

```
<!ELEMENT sectioninfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of sectioninfo.element-->]]>

<!ENTITY % sectioninfo.attlist "INCLUDE">
<![ %sectioninfo.attlist; [
<!ATTLIST sectioninfo
  %common.attrib;
  %sectioninfo.role.attrib;
  %local.sectioninfo.attrib;
>
<!--end of sectioninfo.attlist-->]]>
<!--end of sectioninfo.module-->]]>
<!--end of section.content.module-->]]>

<!-- ..................................................................... -->
<!-- Sect1, Sect2, Sect3,
 Sect4, Sect5 ..................................... -->

<!ENTITY % sect1.module "INCLUDE">
<![%sect1.module;[
<!ENTITY % local.sect1.attrib "">
<!ENTITY % sect1.role.attrib "%role.attrib;">

<!ENTITY % sect1.element "INCLUDE">
<![%sect1.element;[
<!ELEMENT sect1 %ho; (sect1info?, (%sect.title.content;), (%nav.class;)*,
  (((%divcomponent.mix;)+,
  ((%refentry.class;)* | sect2* | simplesect*))
  | (%refentry.class;)+ | sect2+ | simplesect+), (%nav.class;)*)
  %ubiq.inclusion;>
<!--end of sect1.element-->]]>

<!-- Renderas: Indicates the format in which the heading should
  appear -->


<!ENTITY % sect1.attlist "INCLUDE">
<![%sect1.attlist;[
<!ATTLIST sect1
  renderas (sect2
    |sect3
    |sect4
    |sect5)  #IMPLIED
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %sect1.role.attrib;
```

```
 %local.sect1.attrib;
>
<!--end of sect1.attlist-->]]>
<!--end of sect1.module-->]]>

<!ENTITY % sect2.module "INCLUDE">
<![%sect2.module;[
<!ENTITY % local.sect2.attrib "">
<!ENTITY % sect2.role.attrib
 "%role.attrib;">

<!ENTITY % sect2.element "INCLUDE">
<![%sect2.element;[
<!ELEMENT sect2 %ho; (sect2info?, (%sect.title.content;), (%nav.class;)*,
 (((%divcomponent.mix;)+,
 ((%refentry.class;)* | sect3* | simplesect*))
 | (%refentry.class;)+ | sect3+ | simplesect+), (%nav.class;)*)>
<!--end of sect2.element-->]]>

<!-- Renderas: Indicates the format in which the heading should
 appear -->


<!ENTITY % sect2.attlist "INCLUDE">
<![%sect2.attlist;[
<!ATTLIST sect2
 renderas (sect1
   |sect3
   |sect4
   |sect5)  #IMPLIED
 %label.attrib;
 %status.attrib;
 %common.attrib;
 %sect2.role.attrib;
 %local.sect2.attrib;
>
<!--end of sect2.attlist-->]]>
<!--end of sect2.module-->]]>

<!ENTITY % sect3.module "INCLUDE">
<![%sect3.module;[
<!ENTITY % local.sect3.attrib "">
<!ENTITY % sect3.role.attrib "%role.attrib;">

<!ENTITY % sect3.element "INCLUDE">
<![%sect3.element;[
<!ELEMENT sect3 %ho; (sect3info?, (%sect.title.content;), (%nav.class;)*,
 (((%divcomponent.mix;)+,
```

```
 ((%refentry.class;)*
| sect4* | simplesect*))
 | (%refentry.class;)+ | sect4+ | simplesect+), (%nav.class;)*)>
<!--end of sect3.element-->]]>

<!-- Renderas: Indicates the format in which the heading should
 appear -->


<!ENTITY % sect3.attlist "INCLUDE">
<![%sect3.attlist;[
<!ATTLIST sect3
 renderas (sect1
   |sect2
   |sect4
   |sect5)  #IMPLIED
 %label.attrib;
 %status.attrib;
 %common.attrib;
 %sect3.role.attrib;
 %local.sect3.attrib;
>
<!--end of sect3.attlist-->]]>
<!--end of sect3.module-->]]>

<!ENTITY % sect4.module "INCLUDE">
<![%sect4.module;[
<!ENTITY % local.sect4.attrib "">
<!ENTITY % sect4.role.attrib "%role.attrib;">

<!ENTITY % sect4.element "INCLUDE">
<![%sect4.element;[
<!ELEMENT sect4 %ho; (sect4info?, (%sect.title.content;), (%nav.class;)*,
 (((%divcomponent.mix;)+,
 ((%refentry.class;)* | sect5* | simplesect*))
 | (%refentry.class;)+ | sect5+ | simplesect+), (%nav.class;)*)>
<!--end of sect4.element-->]]>

<!-- Renderas: Indicates the format in which
the heading should
 appear -->


<!ENTITY % sect4.attlist "INCLUDE">
<![%sect4.attlist;[
<!ATTLIST sect4
 renderas (sect1
   |sect2
```

```
    |sect3
    |sect5)  #IMPLIED
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %sect4.role.attrib;
  %local.sect4.attrib;
>
<!--end of sect4.attlist-->]]>
<!--end of sect4.module-->]]>

<!ENTITY % sect5.module "INCLUDE">
<![%sect5.module;[
<!ENTITY % local.sect5.attrib "">
<!ENTITY % sect5.role.attrib "%role.attrib;">

<!ENTITY % sect5.element "INCLUDE">
<![%sect5.element;[
<!ELEMENT sect5 %ho; (sect5info?, (%sect.title.content;), (%nav.class;)*,
  (((%divcomponent.mix;)+, ((%refentry.class;)* | simplesect*))
  | (%refentry.class;)+ | simplesect+), (%nav.class;)*)>
<!--end of sect5.element-->]]>

<!-- Renderas: Indicates the format in which the heading should
  appear -->


<!ENTITY % sect5.attlist "INCLUDE">
<![%sect5.attlist;[
<!ATTLIST sect5
  renderas (sect1
    |sect2
    |sect3
    |sect4)  #IMPLIED
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %sect5.role.attrib;
  %local.sect5.attrib;
>
<!--end
 of sect5.attlist-->]]>
<!--end of sect5.module-->]]>

<!ENTITY % simplesect.module "INCLUDE">
<![%simplesect.module;[
<!ENTITY % local.simplesect.attrib "">
<!ENTITY % simplesect.role.attrib "%role.attrib;">
```

```
<!ENTITY % simplesect.element "INCLUDE">
<![%simplesect.element;[
<!ELEMENT simplesect %ho; ((%sect.title.content;), (%divcomponent.mix;)+)
  %ubiq.inclusion;>
<!--end of simplesect.element-->]]>

<!ENTITY % simplesect.attlist "INCLUDE">
<![%simplesect.attlist;[
<!ATTLIST simplesect
  %common.attrib;
  %simplesect.role.attrib;
  %local.simplesect.attrib;
>
<!--end of simplesect.attlist-->]]>
<!--end of simplesect.module-->]]>

<!-- ..................................................................... -->
<!-- Bibliography ......................................................... -->

<!ENTITY % bibliography.content.module "INCLUDE">
<![%bibliography.content.module;[
<!ENTITY % bibliography.module "INCLUDE">
<![%bibliography.module;[
<!ENTITY
 % local.bibliography.attrib "">
<!ENTITY % bibliography.role.attrib "%role.attrib;">

<!ENTITY % bibliography.element "INCLUDE">
<![%bibliography.element;[
<!ELEMENT bibliography %ho; (bibliographyinfo?,
                    (%bookcomponent.title.content;)?,
                    (%component.mix;)*,
                    (bibliodiv+ | (biblioentry|bibliomixed)+))>
<!--end of bibliography.element-->]]>

<!ENTITY % bibliography.attlist "INCLUDE">
<![%bibliography.attlist;[
<!ATTLIST bibliography
  %status.attrib;
  %common.attrib;
  %bibliography.role.attrib;
  %local.bibliography.attrib;
>
<!--end of bibliography.attlist-->]]>
<!--end of bibliography.module-->]]>

<!ENTITY % bibliodiv.module "INCLUDE">
```

```
<![%bibliodiv.module;[
<!ENTITY % local.bibliodiv.attrib "">
<!ENTITY % bibliodiv.role.attrib "%role.attrib;">

<!ENTITY % bibliodiv.element "INCLUDE">
<![%bibliodiv.element;[
<!ELEMENT bibliodiv %ho; ((%sect.title.content;)?, (%component.mix;)*,
  (biblioentry|bibliomixed)+)>
<!--end
 of bibliodiv.element-->]]>

<!ENTITY % bibliodiv.attlist "INCLUDE">
<![%bibliodiv.attlist;[
<!ATTLIST bibliodiv
  %status.attrib;
  %common.attrib;
  %bibliodiv.role.attrib;
  %local.bibliodiv.attrib;
>
<!--end of bibliodiv.attlist-->]]>
<!--end of bibliodiv.module-->]]>
<!--end of bibliography.content.module-->]]>

<!-- ..... -->
<!-- Glossary ..... -->

<!ENTITY % glossary.content.module "INCLUDE">
<![%glossary.content.module;[
<!ENTITY % glossary.module "INCLUDE">
<![%glossary.module;[
<!ENTITY % local.glossary.attrib "">
<!ENTITY % glossary.role.attrib "%role.attrib;">

<!ENTITY % glossary.element "INCLUDE">
<![%glossary.element;[
<!ELEMENT glossary %ho; (glossaryinfo?,
                (%bookcomponent.title.content;)?,
                (%component.mix;)*,
                (glossdiv+ | glossentry+), bibliography?)>
<!--end
 of glossary.element-->]]>

<!ENTITY % glossary.attlist "INCLUDE">
<![%glossary.attlist;[
<!ATTLIST glossary
  %status.attrib;
  %common.attrib;
  %glossary.role.attrib;
```

```
 %local.glossary.attrib;
>
<!--end of glossary.attlist-->]]>
<!--end of glossary.module-->]]>

<!ENTITY % glossdiv.module "INCLUDE">
<![%glossdiv.module;[
<!ENTITY % local.glossdiv.attrib "">
<!ENTITY % glossdiv.role.attrib "%role.attrib;">

<!ENTITY % glossdiv.element "INCLUDE">
<![%glossdiv.element;[
<!ELEMENT glossdiv %ho; ((%sect.title.content;), (%component.mix;)*,
 glossentry+)>
<!--end of glossdiv.element-->]]>

<!ENTITY % glossdiv.attlist "INCLUDE">
<![%glossdiv.attlist;[
<!ATTLIST glossdiv
 %status.attrib;
 %common.attrib;
 %glossdiv.role.attrib;
 %local.glossdiv.attrib;
>
<!--end of glossdiv.attlist-->]]>
<!--end of glossdiv.module-->]]>
<!--end of glossary.content.module-->]]>

<!-- ..................................................................... -->
<!-- Index and SetIndex ..................................................
 -->

<!ENTITY % index.content.module "INCLUDE">
<![%index.content.module;[
<!ENTITY % indexes.module "INCLUDE">
<![%indexes.module;[
<!ENTITY % local.indexes.attrib "">
<!ENTITY % indexes.role.attrib "%role.attrib;">

<!ENTITY % index.element "INCLUDE">
<![%index.element;[
<!ELEMENT index %ho; (indexinfo?,
            (%bookcomponent.title.content;)?,
            (%component.mix;)*,
            (indexdiv* | indexentry*))
 %ndxterm.exclusion;>
<!--end of index.element-->]]>
```

```
<!ENTITY % index.attlist "INCLUDE">
<![%index.attlist;[
<!ATTLIST index
  %common.attrib;
  %indexes.role.attrib;
  %local.indexes.attrib;
>
<!--end of index.attlist-->]]>

<!ENTITY % setindex.element "INCLUDE">
<![%setindex.element;[
<!ELEMENT setindex %ho; (setindexinfo?,
                (%bookcomponent.title.content;)?,
                (%component.mix;)*,
                (indexdiv* | indexentry*))
  %ndxterm.exclusion;>
<!--end of setindex.element-->]]>

<!ENTITY
 % setindex.attlist "INCLUDE">
<![%setindex.attlist;[
<!ATTLIST setindex
  %common.attrib;
  %indexes.role.attrib;
  %local.indexes.attrib;
>
<!--end of setindex.attlist-->]]>
<!--end of indexes.module-->]]>

<!ENTITY % indexdiv.module "INCLUDE">
<![%indexdiv.module;[

<!-- SegmentedList in this content is useful for marking up permuted
    indices. -->

<!ENTITY % local.indexdiv.attrib "">
<!ENTITY % indexdiv.role.attrib "%role.attrib;">

<!ENTITY % indexdiv.element "INCLUDE">
<![%indexdiv.element;[
<!ELEMENT indexdiv %ho; ((%sect.title.content;)?, ((%indexdivcomponent.mix;)*,
  (indexentry+ | segmentedlist)))>
<!--end of indexdiv.element-->]]>

<!ENTITY % indexdiv.attlist "INCLUDE">
<![%indexdiv.attlist;[
<!ATTLIST indexdiv
  %common.attrib;
```

```
 %indexdiv.role.attrib;
 %local.indexdiv.attrib;
>
<!--end of indexdiv.attlist--]]>
<!--end of indexdiv.module--]]>

<!ENTITY % indexentry.module "INCLUDE">
<![%indexentry.module;[
<!-- Index entries appear in the index, not the
 text. -->

<!ENTITY % local.indexentry.attrib "">
<!ENTITY % indexentry.role.attrib "%role.attrib;">

<!ENTITY % indexentry.element "INCLUDE">
<![%indexentry.element;[
<!ELEMENT indexentry %ho; (primaryie, (seeie|seealsoie)*,
  (secondaryie, (seeie|seealsoie|tertiaryie)*)*)>
<!--end of indexentry.element--]]>

<!ENTITY % indexentry.attlist "INCLUDE">
<![%indexentry.attlist;[
<!ATTLIST indexentry
  %common.attrib;
  %indexentry.role.attrib;
  %local.indexentry.attrib;
>
<!--end of indexentry.attlist--]]>
<!--end of indexentry.module--]]>

<!ENTITY % primsecterie.module "INCLUDE">
<![%primsecterie.module;[
<!ENTITY % local.primsecterie.attrib "">
<!ENTITY % primsecterie.role.attrib "%role.attrib;">

<!ENTITY % primaryie.element "INCLUDE">
<![%primaryie.element;[
<!ELEMENT primaryie %ho; (%ndxterm.char.mix;)*>
<!--end of primaryie.element--]]>

<!-- to IndexTerms that these entries represent -->

<!ENTITY % primaryie.attlist "INCLUDE">
<![%primaryie.attlist;[
<!ATTLIST primaryie
  %linkends.attrib;  %common.attrib;
  %primsecterie.role.attrib;
  %local.primsecterie.attrib;
```

```
>
<!--end
 of primaryie.attlist-->]]>

<!ENTITY % secondaryie.element "INCLUDE">
<![%secondaryie.element;[
<!ELEMENT secondaryie %ho; (%ndxterm.char.mix;)*>
<!--end of secondaryie.element-->]]>

<!-- to IndexTerms that these entries represent -->

<!ENTITY % secondaryie.attlist "INCLUDE">
<![%secondaryie.attlist;[
<!ATTLIST secondaryie
  %linkends.attrib;  %common.attrib;
  %primsecterie.role.attrib;
  %local.primsecterie.attrib;
>
<!--end of secondaryie.attlist-->]]>

<!ENTITY % tertiaryie.element "INCLUDE">
<![%tertiaryie.element;[
<!ELEMENT tertiaryie %ho; (%ndxterm.char.mix;)*>
<!--end of tertiaryie.element-->]]>

<!-- to IndexTerms that these entries represent -->

<!ENTITY % tertiaryie.attlist "INCLUDE">
<![%tertiaryie.attlist;[
<!ATTLIST tertiaryie
  %linkends.attrib;  %common.attrib;
  %primsecterie.role.attrib;
  %local.primsecterie.attrib;
>
<!--end of tertiaryie.attlist-->]]>

<!--end of
 primsecterie.module-->]]>

<!ENTITY % seeie.module "INCLUDE">
<![%seeie.module;[
<!ENTITY % local.seeie.attrib "">
<!ENTITY % seeie.role.attrib "%role.attrib;">

<!ENTITY % seeie.element "INCLUDE">
<![%seeie.element;[
<!ELEMENT seeie %ho; (%ndxterm.char.mix;)*>
<!--end of seeie.element-->]]>
```

```
<!-- to IndexEntry to look up -->


<!ENTITY % seeie.attlist "INCLUDE">
<![%seeie.attlist;[
<!ATTLIST seeie
  %linkend.attrib;  %common.attrib;
  %seeie.role.attrib;
  %local.seeie.attrib;
>
<!--end of seeie.attlist-->]]>
<!--end of seeie.module-->]]>

<!ENTITY % seealsoie.module "INCLUDE">
<![%seealsoie.module;[
<!ENTITY % local.seealsoie.attrib "">
<!ENTITY % seealsoie.role.attrib "%role.attrib;">

<!ENTITY % seealsoie.element "INCLUDE">
<![%seealsoie.element;[
<!ELEMENT seealsoie %ho; (%ndxterm.char.mix;)*>
<!--end of seealsoie.element-->]]>

<!-- to related IndexEntries -->


<!ENTITY % seealsoie.attlist "INCLUDE">
<![%seealsoie.attlist;[
<!ATTLIST seealsoie
  %linkends.attrib;  %common.attrib;
  %seealsoie.role.attrib;
  %local.seealsoie.attrib;
>
<!--end
 of seealsoie.attlist-->]]>
<!--end of seealsoie.module-->]]>
<!--end of index.content.module-->]]>

<!-- ..... -->
<!-- RefEntry ..... -->

<!ENTITY % refentry.content.module "INCLUDE">
<![%refentry.content.module;[
<!ENTITY % refentry.module "INCLUDE">
<![%refentry.module;[
<!ENTITY % local.refentry.attrib "">
<!ENTITY % refentry.role.attrib "%role.attrib;">
```

```
<!ENTITY % refentry.element "INCLUDE">
<![%refentry.element;[
<!ELEMENT refentry %ho; (beginpage?,
                (%ndxterm.class;)*,
                refentryinfo?, refmeta?, (remark|%link.char.class;)*,
                refnamediv, refsynopsisdiv?, (refsect1+|refsection+))
  %ubiq.inclusion;>
<!--end of refentry.element-->]]>

<!ENTITY % refentry.attlist "INCLUDE">
<![%refentry.attlist;[
<!ATTLIST refentry
  %status.attrib;
  %common.attrib;
  %refentry.role.attrib;
  %local.refentry.attrib;
>
<!--end
 of refentry.attlist-->]]>
<!--end of refentry.module-->]]>

<!ENTITY % refmeta.module "INCLUDE">
<![%refmeta.module;[
<!ENTITY % local.refmeta.attrib "">
<!ENTITY % refmeta.role.attrib "%role.attrib;">

<!ENTITY % refmeta.element "INCLUDE">
<![%refmeta.element;[
<!ELEMENT refmeta %ho; ((%ndxterm.class;)*,
                refentrytitle, manvolnum?, refmiscinfo*,
                (%ndxterm.class;)*)
  %beginpage.exclusion;>
<!--end of refmeta.element-->]]>

<!ENTITY % refmeta.attlist "INCLUDE">
<![%refmeta.attlist;[
<!ATTLIST refmeta
  %common.attrib;
  %refmeta.role.attrib;
  %local.refmeta.attrib;
>
<!--end of refmeta.attlist-->]]>
<!--end of refmeta.module-->]]>

<!ENTITY % refmiscinfo.module "INCLUDE">
<![%refmiscinfo.module;[
<!ENTITY % local.refmiscinfo.attrib "">
```

```
<!ENTITY % refmiscinfo.role.attrib "%role.attrib;">

<!ENTITY % refmiscinfo.element "INCLUDE">
<![%refmiscinfo.element;[
<!ELEMENT refmiscinfo %ho;
 (%docinfo.char.mix;)*>
<!--end of refmiscinfo.element-->]]>

<!-- Class: Freely assignable parameter; no default -->


<!ENTITY % refmiscinfo.attlist "INCLUDE">
<![%refmiscinfo.attlist;[
<!ATTLIST refmiscinfo
  class  CDATA  #IMPLIED
  %common.attrib;
  %refmiscinfo.role.attrib;
  %local.refmiscinfo.attrib;
>
<!--end of refmiscinfo.attlist-->]]>
<!--end of refmiscinfo.module-->]]>

<!ENTITY % refnamediv.module "INCLUDE">
<![%refnamediv.module;[
<!ENTITY % local.refnamediv.attrib "">
<!ENTITY % refnamediv.role.attrib "%role.attrib;">

<!ENTITY % refnamediv.element "INCLUDE">
<![%refnamediv.element;[
<!ELEMENT refnamediv %ho; (refdescriptor?, refname+, refpurpose, refclass*,
  (remark|%link.char.class;)*)>
<!--end of refnamediv.element-->]]>

<!ENTITY % refnamediv.attlist "INCLUDE">
<![%refnamediv.attlist;[
<!ATTLIST refnamediv
  %common.attrib;
  %refnamediv.role.attrib;
  %local.refnamediv.attrib;
>
<!--end of refnamediv.attlist-->]]>
<!--end of refnamediv.module-->]]>

<!ENTITY % refdescriptor.module
 "INCLUDE">
<![%refdescriptor.module;[
<!ENTITY % local.refdescriptor.attrib "">
<!ENTITY % refdescriptor.role.attrib "%role.attrib;">
```

```
<!ENTITY % refdescriptor.element "INCLUDE">
<![%refdescriptor.element;[
<!ELEMENT refdescriptor %ho; (%refname.char.mix;)*>
<!--end of refdescriptor.element-->]]>

<!ENTITY % refdescriptor.attlist "INCLUDE">
<![%refdescriptor.attlist;[
<!ATTLIST refdescriptor
  %common.attrib;
  %refdescriptor.role.attrib;
  %local.refdescriptor.attrib;
>
<!--end of refdescriptor.attlist-->]]>
<!--end of refdescriptor.module-->]]>

<!ENTITY % refname.module "INCLUDE">
<![%refname.module;[
<!ENTITY % local.refname.attrib "">
<!ENTITY % refname.role.attrib "%role.attrib;">

<!ENTITY % refname.element "INCLUDE">
<![%refname.element;[
<!ELEMENT refname %ho; (%refname.char.mix;)*>
<!--end of refname.element-->]]>

<!ENTITY % refname.attlist "INCLUDE">
<![%refname.attlist;[
<!ATTLIST refname
  %common.attrib;
  %refname.role.attrib;
  %local.refname.attrib;
>
<!--end
 of refname.attlist-->]]>
<!--end of refname.module-->]]>

<!ENTITY % refpurpose.module "INCLUDE">
<![%refpurpose.module;[
<!ENTITY % local.refpurpose.attrib "">
<!ENTITY % refpurpose.role.attrib "%role.attrib;">

<!ENTITY % refpurpose.element "INCLUDE">
<![%refpurpose.element;[
<!ELEMENT refpurpose %ho; (%refinline.char.mix;)*>
<!--end of refpurpose.element-->]]>

<!ENTITY % refpurpose.attlist "INCLUDE">
```

```
<![%refpurpose.attlist;[
<!ATTLIST refpurpose
  %common.attrib;
  %refpurpose.role.attrib;
  %local.refpurpose.attrib;
>
<!--end of refpurpose.attlist-->]]>
<!--end of refpurpose.module-->]]>

<!ENTITY % refclass.module "INCLUDE">
<![%refclass.module;[
<!ENTITY % local.refclass.attrib "">
<!ENTITY % refclass.role.attrib "%role.attrib;">

<!ENTITY % refclass.element "INCLUDE">
<![%refclass.element;[
<!ELEMENT refclass %ho; (%refclass.char.mix;)*>
<!--end of refclass.element-->]]>

<!ENTITY % refclass.attlist "INCLUDE">
<![%refclass.attlist;[
<!ATTLIST refclass
  %common.attrib;
  %refclass.role.attrib;
  %local.refclass.attrib;
>
<!--end
 of refclass.attlist-->]]>
<!--end of refclass.module-->]]>

<!ENTITY % refsynopsisdiv.module "INCLUDE">
<![%refsynopsisdiv.module;[
<!ENTITY % local.refsynopsisdiv.attrib "">
<!ENTITY % refsynopsisdiv.role.attrib "%role.attrib;">

<!ENTITY % refsynopsisdiv.element "INCLUDE">
<![%refsynopsisdiv.element;[
<!ELEMENT refsynopsisdiv %ho; (refsynopsisdivinfo?, (%refsect.title.content;)?,
  (((%refcomponent.mix;)+, refsect2*) | (refsect2+)))>
<!--end of refsynopsisdiv.element-->]]>

<!ENTITY % refsynopsisdiv.attlist "INCLUDE">
<![%refsynopsisdiv.attlist;[
<!ATTLIST refsynopsisdiv
  %common.attrib;
  %refsynopsisdiv.role.attrib;
  %local.refsynopsisdiv.attrib;
>
```

```
<!--end of refsynopsisdiv.attlist-->]]>
<!--end of refsynopsisdiv.module-->]]>

<!ENTITY % refsection.module "INCLUDE">
<![%refsection.module;[
<!ENTITY % local.refsection.attrib "">
<!ENTITY % refsection.role.attrib "%role.attrib;">

<!ENTITY % refsection.element "INCLUDE">
<![%refsection.element;[
<!ELEMENT
 refsection %ho; (refsectioninfo?, (%refsect.title.content;),
  (((%refcomponent.mix;)+, refsection*) | refsection+))>
<!--end of refsection.element-->]]>

<!ENTITY % refsection.attlist "INCLUDE">
<![%refsection.attlist;[
<!ATTLIST refsection
  %status.attrib;
  %common.attrib;
  %refsection.role.attrib;
  %local.refsection.attrib;
>
<!--end of refsection.attlist-->]]>
<!--end of refsection.module-->]]>

<!ENTITY % refsect1.module "INCLUDE">
<![%refsect1.module;[
<!ENTITY % local.refsect1.attrib "">
<!ENTITY % refsect1.role.attrib "%role.attrib;">

<!ENTITY % refsect1.element "INCLUDE">
<![%refsect1.element;[
<!ELEMENT refsect1 %ho; (refsect1info?, (%refsect.title.content;),
  (((%refcomponent.mix;)+, refsect2*) | refsect2+))>
<!--end of refsect1.element-->]]>

<!ENTITY % refsect1.attlist "INCLUDE">
<![%refsect1.attlist;[
<!ATTLIST refsect1
  %status.attrib;
  %common.attrib;
  %refsect1.role.attrib;
  %local.refsect1.attrib;
>
<!--end of refsect1.attlist-->]]>
<!--end
```

```
 of refsect1.module-->]]>

<!ENTITY % refsect2.module "INCLUDE">
<![%refsect2.module;[
<!ENTITY % local.refsect2.attrib "">
<!ENTITY % refsect2.role.attrib "%role.attrib;">

<!ENTITY % refsect2.element "INCLUDE">
<![%refsect2.element;[
<!ELEMENT refsect2 %ho; (refsect2info?, (%refsect.title.content;),
 (((%refcomponent.mix;)+, refsect3*) | refsect3+))>
<!--end of refsect2.element-->]]>

<!ENTITY % refsect2.attlist "INCLUDE">
<![%refsect2.attlist;[
<!ATTLIST refsect2
  %status.attrib;
  %common.attrib;
  %refsect2.role.attrib;
  %local.refsect2.attrib;
>
<!--end of refsect2.attlist-->]]>
<!--end of refsect2.module-->]]>

<!ENTITY % refsect3.module "INCLUDE">
<![%refsect3.module;[
<!ENTITY % local.refsect3.attrib "">
<!ENTITY % refsect3.role.attrib "%role.attrib;">

<!ENTITY % refsect3.element "INCLUDE">
<![%refsect3.element;[
<!ELEMENT refsect3 %ho; (refsect3info?, (%refsect.title.content;),
 (%refcomponent.mix;)+)>
<!--end of refsect3.element-->]]>

<!ENTITY % refsect3.attlist
 "INCLUDE">
<![%refsect3.attlist;[
<!ATTLIST refsect3
  %status.attrib;
  %common.attrib;
  %refsect3.role.attrib;
  %local.refsect3.attrib;
>
<!--end of refsect3.attlist-->]]>
<!--end of refsect3.module-->]]>
<!--end of refentry.content.module-->]]>
```

```
<!-- ..................................................................... -->
<!-- Article ..... -->

<!ENTITY % article.module "INCLUDE">
<![%article.module;[
<!-- An Article is a chapter-level, stand-alone document that is often,
    but need not be, collected into a Book. -->

<!ENTITY % local.article.attrib "">
<!ENTITY % article.role.attrib "%role.attrib;">

<!ENTITY % article.element "INCLUDE">
<![%article.element;[
<!ELEMENT article %ho; ((%div.title.content;)?, articleinfo?, tocchap?, lot*,
  (%bookcomponent.content;),
  ((%nav.class;) | (%appendix.class;) | ackno)*)
 %ubiq.inclusion;>
<!--end of article.element-->]]>

<!-- Class: Indicates the type of a particular
 article;
  all articles have the same structure and general purpose.
  No default. -->
<!-- ParentBook: ID of the enclosing Book -->


<!ENTITY % article.attlist "INCLUDE">
<![%article.attlist;[
<!ATTLIST article
  class  (journalarticle
    |productsheet
    |whitepaper
    |techreport
                        |specification
    |faq)  #IMPLIED
  parentbook IDREF  #IMPLIED
  %status.attrib;
  %common.attrib;
  %article.role.attrib;
  %local.article.attrib;
>
<!--end of article.attlist-->]]>
<!--end of article.module-->]]>

<!-- End of DocBook document hierarchy module V4.2 ..... -->
<!-- ..................................................................... -->
```

Found in path(s):

* /docbook-xml-4-5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-4.2/dbhierx.mod
No license file was found, but licenses were detected in source scan.

```
<!-- ....................................................................... -->
<!-- DocBook document hierarchy module V4.3 ................................ -->
<!-- File dbhierx.mod ...................................................... -->

<!-- Copyright 1992-2002 HaL Computer Systems, Inc.,
   O'Reilly & Associates, Inc., ArborText, Inc., Fujitsu Software
   Corporation, Norman Walsh, Sun Microsystems, Inc., and the
   Organization for the Advancement of Structured Information
   Standards (OASIS).

   $Id: dbhierx.mod,v 1.29 2004/03/31 10:40:22 nwalsh Exp $

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    any purpose.  It is provided "as is" without expressed or implied
   warranty.

   If you modify the DocBook DTD in any way, except for declaring and
   referencing additional sets of general entities and declaring
   additional notations, label your DTD as a variant of DocBook.  See
   the maintenance documentation for more information.

   Please direct all questions, bug reports, or suggestions for
   changes to the docbook@lists.oasis-open.org mailing list. For more
   information, see http://www.oasis-open.org/docbook/.
-->

<!-- ....................................................................... -->

<!-- This module contains the definitions for the overall document
   hierarchies of DocBook documents.  It covers computer documentation
   manuals and manual fragments, as well as reference entries (such as
   man pages) and technical journals or anthologies containing
   articles.

   This module depends on the DocBook information pool module.  All
    elements and entities referenced but not defined here are assumed
   to be defined in the information pool module.

   In DTD driver files referring to this module, please use an entity
   declaration that uses the public identifier shown below:
```

```
   <!ENTITY % dbhier PUBLIC
   "-//OASIS//ELEMENTS DocBook Document Hierarchy V4.3//EN"
   "dbhierx.mod">
   %dbhier;

   See the documentation for detailed information on the parameter
   entity and module scheme used in DocBook, customizing DocBook and
   planning for interchange, and changes made since the last release
   of DocBook.
-->

<!-- ..................................................................... -->
<!-- Entities for module inclusions ..................................... -->

<!ENTITY % dbhier.redecl.module  "IGNORE">
<!ENTITY % dbhier.redecl2.module "IGNORE">

<!-- ..................................................................... -->
<!-- Entities for element classes .....................................
 -->

<!ENTITY % local.appendix.class "">
<!ENTITY % appendix.class "appendix %local.appendix.class;">

<!ENTITY % local.article.class "">
<!ENTITY % article.class "article %local.article.class;">

<!ENTITY % local.book.class "">
<!ENTITY % book.class  "book %local.book.class;">

<!ENTITY % local.chapter.class "">
<!ENTITY % chapter.class "chapter %local.chapter.class;">

<!ENTITY % local.index.class "">
<!ENTITY % index.class  "index|setindex %local.index.class;">

<!ENTITY % local.refentry.class "">
<!ENTITY % refentry.class "refentry %local.refentry.class;">

<!ENTITY % local.section.class "">
<!ENTITY % section.class "section %local.section.class;">

<!ENTITY % local.nav.class "">
<!ENTITY % nav.class  "toc|lot|index|glossary|bibliography
   %local.nav.class;">

<!-- Redeclaration placeholder ........................................... -->
```

```
<!-- For redeclaring entities that are declared after this point while
   retaining their references to the entities
 that are declared before
   this point -->

<![%dbhier.redecl.module;[
<!-- Defining rdbhier here makes some buggy XML parsers happy. -->
<!ENTITY % rdbhier "">
%rdbhier;
<!--end of dbhier.redecl.module-->]]>

<!-- ..... -->
<!-- Entities for element mixtures ..... -->

<!-- The DocBook TC may produce an official forms module for DocBook. -->
<!-- This PE provides the hook by which it can be inserted into the DTD. -->
<!ENTITY % forms.hook "">

<!ENTITY % local.divcomponent.mix "">
<!ENTITY % divcomponent.mix
  "%list.class;  |%admon.class;
  |%linespecific.class; |%synop.class;
  |%para.class;  |%informal.class;
  |%formal.class;  |%compound.class;
  |%genobj.class;  |%descobj.class;
  |%ndxterm.class;       |beginpage
            %forms.hook;
  %local.divcomponent.mix;">

<!ENTITY % local.refcomponent.mix "">
<!ENTITY % refcomponent.mix
  "%list.class;  |%admon.class;
  |%linespecific.class; |%synop.class;
  |%para.class;  |%informal.class;
  |%formal.class;  |%compound.class;
  |%genobj.class;  |%descobj.class;
  |%ndxterm.class;
       |beginpage
  %local.refcomponent.mix;">

<!ENTITY % local.indexdivcomponent.mix "">
<!ENTITY % indexdivcomponent.mix
  "itemizedlist|orderedlist|variablelist|simplelist
  |%linespecific.class; |%synop.class;
  |%para.class;  |%informal.class;
  |anchor|remark
  |%link.char.class;
                    |beginpage
```

```
  %local.indexdivcomponent.mix;">

<!ENTITY % local.refname.char.mix "">
<!ENTITY % refname.char.mix
  "#PCDATA
  |%tech.char.class;
  %local.refname.char.mix;">

<!ENTITY % local.partcontent.mix "">
<!ENTITY % partcontent.mix
  "%appendix.class;|%chapter.class;|%nav.class;|%article.class;
  |preface|%refentry.class;|reference %local.partcontent.mix;">

<!ENTITY % local.refinline.char.mix "">
<!ENTITY % refinline.char.mix
  "#PCDATA
  |%xref.char.class; |%gen.char.class;
  |%link.char.class; |%tech.char.class;
  |%base.char.class; |%docinfo.char.class;
  |%other.char.class;
  |%ndxterm.class;
       |beginpage
  %local.refinline.char.mix;">

<!ENTITY % local.refclass.char.mix "">
<!ENTITY % refclass.char.mix
  "#PCDATA
  |application
  %local.refclass.char.mix;">

<!-- Redeclaration placeholder 2 ..... -->

<!-- For redeclaring entities that are declared after this point while
    retaining their references to the entities that are declared before
    this point -->

<![%dbhier.redecl2.module;[
<!-- Defining rdbhier2 here makes some buggy XML parsers happy. -->
<!ENTITY % rdbhier2 "">
%rdbhier2;
<!--end of dbhier.redecl2.module-->]]>

<!-- ..... -->
<!-- Entities for content models ..... -->

<!ENTITY % div.title.content
 "title, subtitle?, titleabbrev?">
```

```
<!ENTITY % bookcomponent.title.content
 "title, subtitle?, titleabbrev?">

<!ENTITY % sect.title.content
 "title,
 subtitle?, titleabbrev?">

<!ENTITY % refsect.title.content
 "title, subtitle?, titleabbrev?">

<!ENTITY % bookcomponent.content
 "((%divcomponent.mix;)+,
 (sect1*|(%refentry.class;)*|simplesect*|(%section.class;)*))
 | (sect1+|(%refentry.class;)+|simplesect+|(%section.class;)+)">

<!-- ..... -->
<!-- Set and SetInfo ..... -->

<!ENTITY % set.content.module "INCLUDE">
<![%set.content.module;[
<!ENTITY % set.module "INCLUDE">
<![%set.module;[
<!ENTITY % local.set.attrib "">
<!ENTITY % set.role.attrib "%role.attrib;">

<!ENTITY % set.element "INCLUDE">
<![%set.element;[
<!ELEMENT set %ho; ((%div.title.content;)?, setinfo?, toc?, (set|%book.class;)+,
  setindex?)
  %ubiq.inclusion;>
<!--end of set.element-->]]>

<!-- FPI: SGML formal public identifier -->


<!ENTITY % set.attlist "INCLUDE">
<![%set.attlist;[
<!ATTLIST set
  fpi  CDATA  #IMPLIED
  %status.attrib;
  %common.attrib;
  %set.role.attrib;
  %local.set.attrib;
>
<!--end
 of set.attlist-->]]>
<!--end of set.module-->]]>
```

```
<!ENTITY % setinfo.module "INCLUDE">
<![%setinfo.module;[
<!ENTITY % local.setinfo.attrib "">
<!ENTITY % setinfo.role.attrib "%role.attrib;">

<!ENTITY % setinfo.element "INCLUDE">
<![%setinfo.element;[
<!ELEMENT setinfo %ho; ((%info.class;)+)
 %beginpage.exclusion;>
<!--end of setinfo.element-->]]>

<!-- Contents: IDs of the ToC, Books, and SetIndex that comprise
 the set, in the order of their appearance -->


<!ENTITY % setinfo.attlist "INCLUDE">
<![%setinfo.attlist;[
<!ATTLIST setinfo
 contents IDREFS  #IMPLIED
 %common.attrib;
 %setinfo.role.attrib;
 %local.setinfo.attrib;
>
<!--end of setinfo.attlist-->]]>
<!--end of setinfo.module-->]]>
<!--end of set.content.module-->]]>

<!-- ..... -->
<!-- Book and BookInfo ..... -->

<!ENTITY % book.content.module
 "INCLUDE">
<![%book.content.module;[
<!ENTITY % book.module "INCLUDE">
<![%book.module;[

<!ENTITY % local.book.attrib "">
<!ENTITY % book.role.attrib "%role.attrib;">

<!ENTITY % book.element "INCLUDE">
<![%book.element;[
<!ELEMENT book %ho; ((%div.title.content;)?, bookinfo?,
 (dedication | toc | lot
 | glossary | bibliography | preface
 | %chapter.class; | reference | part
 | %article.class;
 | %appendix.class;
 | %index.class;
```

```
 | colophon)*)
 %ubiq.inclusion;>
<!--end of book.element-->]]>

<!-- FPI: SGML formal public identifier -->


<!ENTITY % book.attlist "INCLUDE">
<![%book.attlist;[
<!ATTLIST book  fpi  CDATA  #IMPLIED
 %label.attrib;
 %status.attrib;
 %common.attrib;
 %book.role.attrib;
 %local.book.attrib;
>
<!--end of book.attlist-->]]>
<!--end of book.module-->]]>

<!ENTITY % bookinfo.module "INCLUDE">
<![%bookinfo.module;[
<!ENTITY % local.bookinfo.attrib "">
<!ENTITY % bookinfo.role.attrib "%role.attrib;">

<!ENTITY % bookinfo.element "INCLUDE">
<![%bookinfo.element;[
<!ELEMENT
 bookinfo %ho; ((%info.class;)+)
 %beginpage.exclusion;>
<!--end of bookinfo.element-->]]>

<!-- Contents: IDs of the ToC, LoTs, Prefaces, Parts, Chapters,
 Appendixes, References, GLossary, Bibliography, and indexes
 comprising the Book, in the order of their appearance -->


<!ENTITY % bookinfo.attlist "INCLUDE">
<![%bookinfo.attlist;[
<!ATTLIST bookinfo
 contents IDREFS  #IMPLIED
 %common.attrib;
 %bookinfo.role.attrib;
 %local.bookinfo.attrib;
>
<!--end of bookinfo.attlist-->]]>
<!--end of bookinfo.module-->]]>
<!--end of book.content.module-->]]>
```

```
<!-- ..................................................................... -->
<!-- Dedication, ToC, and LoT ..... -->

<!ENTITY % dedication.module "INCLUDE">
<![%dedication.module;[
<!ENTITY % local.dedication.attrib "">
<!ENTITY % dedication.role.attrib "%role.attrib;">

<!ENTITY % dedication.element "INCLUDE">
<![%dedication.element;[
<!ELEMENT dedication
 %ho; ((%sect.title.content;)?, (%legalnotice.mix;)+)>
<!--end of dedication.element-->]]>

<!ENTITY % dedication.attlist "INCLUDE">
<![%dedication.attlist;[
<!ATTLIST dedication
  %status.attrib;
  %common.attrib;
  %dedication.role.attrib;
  %local.dedication.attrib;
>
<!--end of dedication.attlist-->]]>
<!--end of dedication.module-->]]>

<!ENTITY % colophon.module "INCLUDE">
<![ %colophon.module; [
<!ENTITY % local.colophon.attrib "">
<!ENTITY % colophon.role.attrib "%role.attrib;">

<!ENTITY % colophon.element "INCLUDE">
<![ %colophon.element; [
<!ELEMENT colophon %ho; ((%sect.title.content;)?, (%textobject.mix;)+)>
<!--end of colophon.element-->]]>

<!ENTITY % colophon.attlist "INCLUDE">
<![ %colophon.attlist; [
<!ATTLIST colophon
  %status.attrib;
  %common.attrib;
  %colophon.role.attrib;
  %local.colophon.attrib;>
<!--end of colophon.attlist-->]]>
<!--end of colophon.module-->]]>

<!ENTITY % toc.content.module "INCLUDE">
<![%toc.content.module;[
<!ENTITY % toc.module "INCLUDE">
```

```
<![%toc.module;[
<!ENTITY
 % local.toc.attrib "">
<!ENTITY % toc.role.attrib "%role.attrib;">

<!ENTITY % toc.element "INCLUDE">
<![%toc.element;[
<!ELEMENT toc %ho; (beginpage?,
  (%bookcomponent.title.content;)?,
  tocfront*,
  (tocpart | tocchap)*, tocback*)>
<!--end of toc.element-->]]>

<!ENTITY % toc.attlist "INCLUDE">
<![%toc.attlist;[
<!ATTLIST toc
  %pagenum.attrib;
  %common.attrib;
  %toc.role.attrib;
  %local.toc.attrib;
>
<!--end of toc.attlist-->]]>
<!--end of toc.module-->]]>

<!ENTITY % tocfront.module "INCLUDE">
<![%tocfront.module;[
<!ENTITY % local.tocfront.attrib "">
<!ENTITY % tocfront.role.attrib "%role.attrib;">

<!ENTITY % tocfront.element "INCLUDE">
<![%tocfront.element;[
<!ELEMENT tocfront %ho; (%para.char.mix;)*>
<!--end of tocfront.element-->]]>

<!-- to element that this entry represents -->


<!ENTITY % tocfront.attlist "INCLUDE">
<![%tocfront.attlist;[
<!ATTLIST tocfront
  %label.attrib;
  %linkend.attrib;  %pagenum.attrib;
  %common.attrib;
  %tocfront.role.attrib;
  %local.tocfront.attrib;
>
<!--end
```

```
 of tocfront.attlist-->]]>
<!--end of tocfront.module-->]]>

<!ENTITY % tocentry.module "INCLUDE">
<![%tocentry.module;[
<!ENTITY % local.tocentry.attrib "">
<!ENTITY % tocentry.role.attrib "%role.attrib;">

<!ENTITY % tocentry.element "INCLUDE">
<![%tocentry.element;[
<!ELEMENT tocentry %ho; (%para.char.mix;)*>
<!--end of tocentry.element-->]]>

<!-- to element that this entry represents -->


<!ENTITY % tocentry.attlist "INCLUDE">
<![%tocentry.attlist;[
<!ATTLIST tocentry
  %linkend.attrib;  %pagenum.attrib;
  %common.attrib;
  %tocentry.role.attrib;
  %local.tocentry.attrib;
>
<!--end of tocentry.attlist-->]]>
<!--end of tocentry.module-->]]>

<!ENTITY % tocpart.module "INCLUDE">
<![%tocpart.module;[
<!ENTITY % local.tocpart.attrib "">
<!ENTITY % tocpart.role.attrib "%role.attrib;">

<!ENTITY % tocpart.element "INCLUDE">
<![%tocpart.element;[
<!ELEMENT tocpart %ho; (tocentry+, tocchap*)>
<!--end of tocpart.element-->]]>

<!ENTITY % tocpart.attlist
 "INCLUDE">
<![%tocpart.attlist;[
<!ATTLIST tocpart
  %common.attrib;
  %tocpart.role.attrib;
  %local.tocpart.attrib;
>
<!--end of tocpart.attlist-->]]>
<!--end of tocpart.module-->]]>
```

```
<!ENTITY % tocchap.module "INCLUDE">
<![%tocchap.module;[
<!ENTITY % local.tocchap.attrib "">
<!ENTITY % tocchap.role.attrib "%role.attrib;">

<!ENTITY % tocchap.element "INCLUDE">
<![%tocchap.element;[
<!ELEMENT tocchap %ho; (tocentry+, toclevel1*)>
<!--end of tocchap.element-->]]>

<!ENTITY % tocchap.attlist "INCLUDE">
<![%tocchap.attlist;[
<!ATTLIST tocchap
  %label.attrib;
  %common.attrib;
  %tocchap.role.attrib;
  %local.tocchap.attrib;
>
<!--end of tocchap.attlist-->]]>
<!--end of tocchap.module-->]]>

<!ENTITY % toclevel1.module "INCLUDE">
<![%toclevel1.module;[
<!ENTITY % local.toclevel1.attrib "">
<!ENTITY % toclevel1.role.attrib "%role.attrib;">

<!ENTITY % toclevel1.element "INCLUDE">
<![%toclevel1.element;[
<!ELEMENT toclevel1 %ho; (tocentry+, toclevel2*)>
<!--end of toclevel1.element-->]]>

<!ENTITY
 % toclevel1.attlist "INCLUDE">
<![%toclevel1.attlist;[
<!ATTLIST toclevel1
  %common.attrib;
  %toclevel1.role.attrib;
  %local.toclevel1.attrib;
>
<!--end of toclevel1.attlist-->]]>
<!--end of toclevel1.module-->]]>

<!ENTITY % toclevel2.module "INCLUDE">
<![%toclevel2.module;[
<!ENTITY % local.toclevel2.attrib "">
<!ENTITY % toclevel2.role.attrib "%role.attrib;">

<!ENTITY % toclevel2.element "INCLUDE">
```

```
<![%toclevel2.element;[
<!ELEMENT toclevel2 %ho; (tocentry+, toclevel3*)>
<!--end of toclevel2.element-->]]>

<!ENTITY % toclevel2.attlist "INCLUDE">
<![%toclevel2.attlist;[
<!ATTLIST toclevel2
  %common.attrib;
  %toclevel2.role.attrib;
  %local.toclevel2.attrib;
>
<!--end of toclevel2.attlist-->]]>
<!--end of toclevel2.module-->]]>

<!ENTITY % toclevel3.module "INCLUDE">
<![%toclevel3.module;[
<!ENTITY % local.toclevel3.attrib "">
<!ENTITY % toclevel3.role.attrib "%role.attrib;">

<!ENTITY % toclevel3.element "INCLUDE">
<![%toclevel3.element;[
<!ELEMENT toclevel3
 %ho; (tocentry+, toclevel4*)>
<!--end of toclevel3.element-->]]>

<!ENTITY % toclevel3.attlist "INCLUDE">
<![%toclevel3.attlist;[
<!ATTLIST toclevel3
  %common.attrib;
  %toclevel3.role.attrib;
  %local.toclevel3.attrib;
>
<!--end of toclevel3.attlist-->]]>
<!--end of toclevel3.module-->]]>

<!ENTITY % toclevel4.module "INCLUDE">
<![%toclevel4.module;[
<!ENTITY % local.toclevel4.attrib "">
<!ENTITY % toclevel4.role.attrib "%role.attrib;">

<!ENTITY % toclevel4.element "INCLUDE">
<![%toclevel4.element;[
<!ELEMENT toclevel4 %ho; (tocentry+, toclevel5*)>
<!--end of toclevel4.element-->]]>

<!ENTITY % toclevel4.attlist "INCLUDE">
<![%toclevel4.attlist;[
<!ATTLIST toclevel4
```

```
 %common.attrib;
 %toclevel4.role.attrib;
 %local.toclevel4.attrib;
>
<!--end of toclevel4.attlist--]]>
<!--end of toclevel4.module--]]>

<!ENTITY % toclevel5.module "INCLUDE">
<![%toclevel5.module;[
<!ENTITY % local.toclevel5.attrib "">
<!ENTITY % toclevel5.role.attrib "%role.attrib;">

<!ENTITY % toclevel5.element
 "INCLUDE">
<![%toclevel5.element;[
<!ELEMENT toclevel5 %ho; (tocentry+)>
<!--end of toclevel5.element--]]>

<!ENTITY % toclevel5.attlist "INCLUDE">
<![%toclevel5.attlist;[
<!ATTLIST toclevel5
 %common.attrib;
 %toclevel5.role.attrib;
 %local.toclevel5.attrib;
>
<!--end of toclevel5.attlist--]]>
<!--end of toclevel5.module--]]>

<!ENTITY % tocback.module "INCLUDE">
<![%tocback.module;[
<!ENTITY % local.tocback.attrib "">
<!ENTITY % tocback.role.attrib "%role.attrib;">

<!ENTITY % tocback.element "INCLUDE">
<![%tocback.element;[
<!ELEMENT tocback %ho; (%para.char.mix;)*>
<!--end of tocback.element--]]>

<!-- to element that this entry represents -->


<!ENTITY % tocback.attlist "INCLUDE">
<![%tocback.attlist;[
<!ATTLIST tocback
 %label.attrib;
 %linkend.attrib;  %pagenum.attrib;
 %common.attrib;
 %tocback.role.attrib;
```

```
 %local.tocback.attrib;
>
<!--end of tocback.attlist--]]>
<!--end of tocback.module--]]>
<!--end of toc.content.module--]]>

<!ENTITY % lot.content.module
 "INCLUDE">
<![%lot.content.module;[
<!ENTITY % lot.module "INCLUDE">
<![%lot.module;[
<!ENTITY % local.lot.attrib "">
<!ENTITY % lot.role.attrib "%role.attrib;">

<!ENTITY % lot.element "INCLUDE">
<![%lot.element;[
<!ELEMENT lot %ho; (beginpage?, (%bookcomponent.title.content;)?, lotentry*)>
<!--end of lot.element--]]>

<!ENTITY % lot.attlist "INCLUDE">
<![%lot.attlist;[
<!ATTLIST lot
 %label.attrib;
 %common.attrib;
 %lot.role.attrib;
 %local.lot.attrib;
>
<!--end of lot.attlist--]]>
<!--end of lot.module--]]>

<!ENTITY % lotentry.module "INCLUDE">
<![%lotentry.module;[
<!ENTITY % local.lotentry.attrib "">
<!ENTITY % lotentry.role.attrib "%role.attrib;">

<!ENTITY % lotentry.element "INCLUDE">
<![%lotentry.element;[
<!ELEMENT lotentry %ho; (%para.char.mix;)*>
<!--end of lotentry.element--]]>

<!-- SrcCredit: Information about the source of the entry,
 as for a list of illustrations -->
<!-- linkend: to element that this entry represents-->
<!ENTITY % lotentry.attlist "INCLUDE">
<![%lotentry.attlist;[
<!ATTLIST
 lotentry
 %linkend.attrib;
```

```
 %pagenum.attrib;
 srccredit CDATA  #IMPLIED
 %common.attrib;
 %lotentry.role.attrib;
 %local.lotentry.attrib;
>
<!--end of lotentry.attlist-->]]>
<!--end of lotentry.module-->]]>
<!--end of lot.content.module-->]]>

<!-- ..................................................................... -->
<!-- Appendix, Chapter, Part, Preface, Reference, PartIntro ..... -->

<!ENTITY % appendix.module "INCLUDE">
<![%appendix.module;[
<!ENTITY % local.appendix.attrib "">
<!ENTITY % appendix.role.attrib "%role.attrib;">

<!ENTITY % appendix.element "INCLUDE">
<![%appendix.element;[
<!ELEMENT appendix %ho; (beginpage?,
                appendixinfo?,
                (%bookcomponent.title.content;),
                (%nav.class;)*,
                tocchap?,
                (%bookcomponent.content;),
                (%nav.class;)*)
 %ubiq.inclusion;>
<!--end of appendix.element-->]]>

<!ENTITY
 % appendix.attlist "INCLUDE">
<![%appendix.attlist;[
<!ATTLIST appendix
 %label.attrib;
 %status.attrib;
 %common.attrib;
 %appendix.role.attrib;
 %local.appendix.attrib;
>
<!--end of appendix.attlist-->]]>
<!--end of appendix.module-->]]>

<!ENTITY % chapter.module "INCLUDE">
<![%chapter.module;[
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">
```

```
<!ENTITY % chapter.element "INCLUDE">
<![%chapter.element;[
<!ELEMENT chapter %ho; (beginpage?,
                chapterinfo?,
                (%bookcomponent.title.content;),
                (%nav.class;)*,
                tocchap?,
                (%bookcomponent.content;),
                (%nav.class;)*)
  %ubiq.inclusion;>
<!--end of chapter.element-->]]>

<!ENTITY % chapter.attlist "INCLUDE">
<![%chapter.attlist;[
<!ATTLIST chapter
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %chapter.role.attrib;
  %local.chapter.attrib;
>
<!--end of chapter.attlist-->]]>
<!--end
 of chapter.module-->]]>

<!ENTITY % part.module "INCLUDE">
<![%part.module;[

<!-- Note that Part was to have its content model reduced in V4.3.  This
change will not be made after all. -->

<!ENTITY % local.part.attrib "">
<!ENTITY % part.role.attrib "%role.attrib;">

<!ENTITY % part.element "INCLUDE">
<![%part.element;[
<!ELEMENT part %ho; (beginpage?,
            partinfo?, (%bookcomponent.title.content;), partintro?,
  (%partcontent.mix;)+)
  %ubiq.inclusion;>
<!--end of part.element-->]]>

<!ENTITY % part.attlist "INCLUDE">
<![%part.attlist;[
<!ATTLIST part
  %label.attrib;
  %status.attrib;
  %common.attrib;
```

```
 %part.role.attrib;
 %local.part.attrib;
>
<!--end of part.attlist-->]]>
<!--ELEMENT PartIntro (defined below)-->
<!--end of part.module-->]]>

<!ENTITY % preface.module "INCLUDE">
<![%preface.module;[
<!ENTITY % local.preface.attrib "">
<!ENTITY % preface.role.attrib "%role.attrib;">

<!ENTITY % preface.element "INCLUDE">
<![%preface.element;[
<!ELEMENT preface %ho;
 (beginpage?,
                prefaceinfo?,
                (%bookcomponent.title.content;),
                (%nav.class;)*,
                tocchap?,
                (%bookcomponent.content;),
                (%nav.class;)*)
 %ubiq.inclusion;>
<!--end of preface.element-->]]>

<!ENTITY % preface.attlist "INCLUDE">
<![%preface.attlist;[
<!ATTLIST preface
 %status.attrib;
 %common.attrib;
 %preface.role.attrib;
 %local.preface.attrib;
>
<!--end of preface.attlist-->]]>
<!--end of preface.module-->]]>

<!ENTITY % reference.module "INCLUDE">
<![%reference.module;[
<!ENTITY % local.reference.attrib "">
<!ENTITY % reference.role.attrib "%role.attrib;">

<!ENTITY % reference.element "INCLUDE">
<![%reference.element;[
<!ELEMENT reference %ho; (beginpage?,
                referenceinfo?,
                (%bookcomponent.title.content;), partintro?,
                (%refentry.class;)+)
 %ubiq.inclusion;>
```

```
<!--end of reference.element-->]]>

<!ENTITY % reference.attlist
 "INCLUDE">
<![%reference.attlist;[
<!ATTLIST reference
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %reference.role.attrib;
  %local.reference.attrib;
>
<!--end of reference.attlist-->]]>
<!--ELEMENT PartIntro (defined below)-->
<!--end of reference.module-->]]>

<!ENTITY % partintro.module "INCLUDE">
<![%partintro.module;[
<!ENTITY % local.partintro.attrib "">
<!ENTITY % partintro.role.attrib "%role.attrib;">

<!ENTITY % partintro.element "INCLUDE">
<![%partintro.element;[
<!ELEMENT partintro %ho; ((%div.title.content;)?, (%bookcomponent.content;))
  %ubiq.inclusion;>
<!--end of partintro.element-->]]>

<!ENTITY % partintro.attlist "INCLUDE">
<![%partintro.attlist;[
<!ATTLIST partintro
  %label.attrib;
  %common.attrib;
  %partintro.role.attrib;
  %local.partintro.attrib;
>
<!--end of partintro.attlist-->]]>
<!--end of partintro.module-->]]>

<!-- ..... -->
<!-- Other Info elements .....
 -->

<!ENTITY % appendixinfo.module "INCLUDE">
<![ %appendixinfo.module; [
<!ENTITY % local.appendixinfo.attrib "">
<!ENTITY % appendixinfo.role.attrib "%role.attrib;">

<!ENTITY % appendixinfo.element "INCLUDE">
```

```
<![ %appendixinfo.element; [
<!ELEMENT appendixinfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of appendixinfo.element-->]]>

<!ENTITY % appendixinfo.attlist "INCLUDE">
<![ %appendixinfo.attlist; [
<!ATTLIST appendixinfo
  %common.attrib;
  %appendixinfo.role.attrib;
  %local.appendixinfo.attrib;
>
<!--end of appendixinfo.attlist-->]]>
<!--end of appendixinfo.module-->]]>

<!ENTITY % bibliographyinfo.module "INCLUDE">
<![ %bibliographyinfo.module; [
<!ENTITY % local.bibliographyinfo.attrib "">
<!ENTITY % bibliographyinfo.role.attrib "%role.attrib;">

<!ENTITY % bibliographyinfo.element "INCLUDE">
<![ %bibliographyinfo.element; [
<!ELEMENT bibliographyinfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of bibliographyinfo.element-->]]>

<!ENTITY
 % bibliographyinfo.attlist "INCLUDE">
<![ %bibliographyinfo.attlist; [
<!ATTLIST bibliographyinfo
  %common.attrib;
  %bibliographyinfo.role.attrib;
  %local.bibliographyinfo.attrib;
>
<!--end of bibliographyinfo.attlist-->]]>
<!--end of bibliographyinfo.module-->]]>

<!ENTITY % chapterinfo.module "INCLUDE">
<![ %chapterinfo.module; [
<!ENTITY % local.chapterinfo.attrib "">
<!ENTITY % chapterinfo.role.attrib "%role.attrib;">

<!ENTITY % chapterinfo.element "INCLUDE">
<![ %chapterinfo.element; [
<!ELEMENT chapterinfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of chapterinfo.element-->]]>
```

```
<!ENTITY % chapterinfo.attlist "INCLUDE">
<![ %chapterinfo.attlist; [
<!ATTLIST chapterinfo
  %common.attrib;
  %chapterinfo.role.attrib;
  %local.chapterinfo.attrib;
>
<!--end of chapterinfo.attlist-->]]>
<!--end of chapterinfo.module-->]]>

<!ENTITY % glossaryinfo.module "INCLUDE">
<![ %glossaryinfo.module; [
<!ENTITY % local.glossaryinfo.attrib "">
<!ENTITY
 % glossaryinfo.role.attrib "%role.attrib;">

<!ENTITY % glossaryinfo.element "INCLUDE">
<![ %glossaryinfo.element; [
<!ELEMENT glossaryinfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of glossaryinfo.element-->]]>

<!ENTITY % glossaryinfo.attlist "INCLUDE">
<![ %glossaryinfo.attlist; [
<!ATTLIST glossaryinfo
  %common.attrib;
  %glossaryinfo.role.attrib;
  %local.glossaryinfo.attrib;
>
<!--end of glossaryinfo.attlist-->]]>
<!--end of glossaryinfo.module-->]]>

<!ENTITY % indexinfo.module "INCLUDE">
<![ %indexinfo.module; [
<!ENTITY % local.indexinfo.attrib "">
<!ENTITY % indexinfo.role.attrib "%role.attrib;">

<!ENTITY % indexinfo.element "INCLUDE">
<![ %indexinfo.element; [
<!ELEMENT indexinfo %ho; ((%info.class;)+)>
<!--end of indexinfo.element-->]]>

<!ENTITY % indexinfo.attlist "INCLUDE">
<![ %indexinfo.attlist; [
<!ATTLIST indexinfo
  %common.attrib;
  %indexinfo.role.attrib;
  %local.indexinfo.attrib;
```

```
>
<!--end of indexinfo.attlist-->]]>
<!--end of indexinfo.module-->]]>

<!ENTITY
 % setindexinfo.module "INCLUDE">
<![ %setindexinfo.module; [
<!ENTITY % local.setindexinfo.attrib "">
<!ENTITY % setindexinfo.role.attrib "%role.attrib;">

<!ENTITY % setindexinfo.element "INCLUDE">
<![ %setindexinfo.element; [
<!ELEMENT setindexinfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of setindexinfo.element-->]]>

<!ENTITY % setindexinfo.attlist "INCLUDE">
<![ %setindexinfo.attlist; [
<!ATTLIST setindexinfo
  %common.attrib;
  %setindexinfo.role.attrib;
  %local.setindexinfo.attrib;
>
<!--end of setindexinfo.attlist-->]]>
<!--end of setindexinfo.module-->]]>

<!ENTITY % partinfo.module "INCLUDE">
<![ %partinfo.module; [
<!ENTITY % local.partinfo.attrib "">
<!ENTITY % partinfo.role.attrib "%role.attrib;">

<!ENTITY % partinfo.element "INCLUDE">
<![ %partinfo.element; [
<!ELEMENT partinfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of partinfo.element-->]]>

<!ENTITY % partinfo.attlist "INCLUDE">
<![ %partinfo.attlist; [
<!ATTLIST partinfo
  %common.attrib;
  %partinfo.role.attrib;
  %local.partinfo.attrib;
>
<!--end
 of partinfo.attlist-->]]>
<!--end of partinfo.module-->]]>
```

```
<!ENTITY % prefaceinfo.module "INCLUDE">
<![ %prefaceinfo.module; [
<!ENTITY % local.prefaceinfo.attrib "">
<!ENTITY % prefaceinfo.role.attrib "%role.attrib;">

<!ENTITY % prefaceinfo.element "INCLUDE">
<![ %prefaceinfo.element; [
<!ELEMENT prefaceinfo %ho; ((%info.class;)+)
 %beginpage.exclusion;>
<!--end of prefaceinfo.element-->]]>

<!ENTITY % prefaceinfo.attlist "INCLUDE">
<![ %prefaceinfo.attlist; [
<!ATTLIST prefaceinfo
 %common.attrib;
 %prefaceinfo.role.attrib;
 %local.prefaceinfo.attrib;
>
<!--end of prefaceinfo.attlist-->]]>
<!--end of prefaceinfo.module-->]]>

<!ENTITY % refentryinfo.module "INCLUDE">
<![ %refentryinfo.module; [
<!ENTITY % local.refentryinfo.attrib "">
<!ENTITY % refentryinfo.role.attrib "%role.attrib;">

<!ENTITY % refentryinfo.element "INCLUDE">
<![ %refentryinfo.element; [
<!ELEMENT refentryinfo %ho; ((%info.class;)+)
 %beginpage.exclusion;>
<!--end
 of refentryinfo.element-->]]>

<!ENTITY % refentryinfo.attlist "INCLUDE">
<![ %refentryinfo.attlist; [
<!ATTLIST refentryinfo
 %common.attrib;
 %refentryinfo.role.attrib;
 %local.refentryinfo.attrib;
>
<!--end of refentryinfo.attlist-->]]>
<!--end of refentryinfo.module-->]]>

<!ENTITY % refsectioninfo.module "INCLUDE">
<![ %refsectioninfo.module; [
<!ENTITY % local.refsectioninfo.attrib "">
<!ENTITY % refsectioninfo.role.attrib "%role.attrib;">
```

```
<!ENTITY % refsectioninfo.element "INCLUDE">
<![ %refsectioninfo.element; [
<!ELEMENT refsectioninfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of refsectioninfo.element-->]]>

<!ENTITY % refsectioninfo.attlist "INCLUDE">
<![ %refsectioninfo.attlist; [
<!ATTLIST refsectioninfo
  %common.attrib;
  %refsectioninfo.role.attrib;
  %local.refsectioninfo.attrib;
>
<!--end of refsectioninfo.attlist-->]]>
<!--end of refsectioninfo.module-->]]>

<!ENTITY % refsect1info.module "INCLUDE">
<![ %refsect1info.module;
 [
<!ENTITY % local.refsect1info.attrib "">
<!ENTITY % refsect1info.role.attrib "%role.attrib;">

<!ENTITY % refsect1info.element "INCLUDE">
<![ %refsect1info.element; [
<!ELEMENT refsect1info %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of refsect1info.element-->]]>

<!ENTITY % refsect1info.attlist "INCLUDE">
<![ %refsect1info.attlist; [
<!ATTLIST refsect1info
  %common.attrib;
  %refsect1info.role.attrib;
  %local.refsect1info.attrib;
>
<!--end of refsect1info.attlist-->]]>
<!--end of refsect1info.module-->]]>

<!ENTITY % refsect2info.module "INCLUDE">
<![ %refsect2info.module; [
<!ENTITY % local.refsect2info.attrib "">
<!ENTITY % refsect2info.role.attrib "%role.attrib;">

<!ENTITY % refsect2info.element "INCLUDE">
<![ %refsect2info.element; [
<!ELEMENT refsect2info %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of refsect2info.element-->]]>
```

```
<!ENTITY % refsect2info.attlist "INCLUDE">
<![ %refsect2info.attlist; [
<!ATTLIST refsect2info
  %common.attrib;
  %refsect2info.role.attrib;
  %local.refsect2info.attrib;
>
<!--end
 of refsect2info.attlist-->]]>
<!--end of refsect2info.module-->]]>

<!ENTITY % refsect3info.module "INCLUDE">
<![ %refsect3info.module; [
<!ENTITY % local.refsect3info.attrib "">
<!ENTITY % refsect3info.role.attrib "%role.attrib;">

<!ENTITY % refsect3info.element "INCLUDE">
<![ %refsect3info.element; [
<!ELEMENT refsect3info %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of refsect3info.element-->]]>

<!ENTITY % refsect3info.attlist "INCLUDE">
<![ %refsect3info.attlist; [
<!ATTLIST refsect3info
  %common.attrib;
  %refsect3info.role.attrib;
  %local.refsect3info.attrib;
>
<!--end of refsect3info.attlist-->]]>
<!--end of refsect3info.module-->]]>

<!ENTITY % refsynopsisdivinfo.module "INCLUDE">
<![ %refsynopsisdivinfo.module; [
<!ENTITY % local.refsynopsisdivinfo.attrib "">
<!ENTITY % refsynopsisdivinfo.role.attrib "%role.attrib;">

<!ENTITY % refsynopsisdivinfo.element "INCLUDE">
<![ %refsynopsisdivinfo.element;
 [
<!ELEMENT refsynopsisdivinfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of refsynopsisdivinfo.element-->]]>

<!ENTITY % refsynopsisdivinfo.attlist "INCLUDE">
<![ %refsynopsisdivinfo.attlist; [
<!ATTLIST refsynopsisdivinfo
```

```
 %common.attrib;
 %refsynopsisdivinfo.role.attrib;
 %local.refsynopsisdivinfo.attrib;
>
<!--end of refsynopsisdivinfo.attlist-->]]>
<!--end of refsynopsisdivinfo.module-->]]>

<!ENTITY % referenceinfo.module "INCLUDE">
<![ %referenceinfo.module; [
<!ENTITY % local.referenceinfo.attrib "">
<!ENTITY % referenceinfo.role.attrib "%role.attrib;">

<!ENTITY % referenceinfo.element "INCLUDE">
<![ %referenceinfo.element; [
<!ELEMENT referenceinfo %ho; ((%info.class;)+)
 %beginpage.exclusion;>
<!--end of referenceinfo.element-->]]>

<!ENTITY % referenceinfo.attlist "INCLUDE">
<![ %referenceinfo.attlist; [
<!ATTLIST referenceinfo
 %common.attrib;
 %referenceinfo.role.attrib;
 %local.referenceinfo.attrib;
>
<!--end of referenceinfo.attlist-->]]>
<!--end
 of referenceinfo.module-->]]>

<!ENTITY % local.sect1info.attrib "">
<!ENTITY % sect1info.role.attrib "%role.attrib;">

<!ENTITY % sect1info.element "INCLUDE">
<![%sect1info.element;[
<!ELEMENT sect1info %ho; ((%info.class;)+)
 %beginpage.exclusion;>
<!--end of sect1info.element-->]]>

<!ENTITY % sect1info.attlist "INCLUDE">
<![%sect1info.attlist;[
<!ATTLIST sect1info
 %common.attrib;
 %sect1info.role.attrib;
 %local.sect1info.attrib;
>
<!--end of sect1info.attlist-->]]>

<!ENTITY % local.sect2info.attrib "">
```

```
<!ENTITY % sect2info.role.attrib "%role.attrib;">

<!ENTITY % sect2info.element "INCLUDE">
<![%sect2info.element;[
<!ELEMENT sect2info %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of sect2info.element-->]]>

<!ENTITY % sect2info.attlist "INCLUDE">
<![%sect2info.attlist;[
<!ATTLIST sect2info
  %common.attrib;
  %sect2info.role.attrib;
  %local.sect2info.attrib;
>
<!--end of sect2info.attlist-->]]>

<!ENTITY % local.sect3info.attrib "">
<!ENTITY % sect3info.role.attrib
 "%role.attrib;">

<!ENTITY % sect3info.element "INCLUDE">
<![%sect3info.element;[
<!ELEMENT sect3info %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of sect3info.element-->]]>

<!ENTITY % sect3info.attlist "INCLUDE">
<![%sect3info.attlist;[
<!ATTLIST sect3info
  %common.attrib;
  %sect3info.role.attrib;
  %local.sect3info.attrib;
>
<!--end of sect3info.attlist-->]]>

<!ENTITY % local.sect4info.attrib "">
<!ENTITY % sect4info.role.attrib "%role.attrib;">

<!ENTITY % sect4info.element "INCLUDE">
<![%sect4info.element;[
<!ELEMENT sect4info %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of sect4info.element-->]]>

<!ENTITY % sect4info.attlist "INCLUDE">
<![%sect4info.attlist;[
<!ATTLIST sect4info
```

```
 %common.attrib;
 %sect4info.role.attrib;
 %local.sect4info.attrib;
>
<!--end of sect4info.attlist-->]]>

<!ENTITY % local.sect5info.attrib "">
<!ENTITY % sect5info.role.attrib "%role.attrib;">

<!ENTITY % sect5info.element "INCLUDE">
<![%sect5info.element;[
<!ELEMENT sect5info
 %ho; ((%info.class;)+)
 %beginpage.exclusion;>
<!--end of sect5info.element-->]]>

<!ENTITY % sect5info.attlist "INCLUDE">
<![%sect5info.attlist;[
<!ATTLIST sect5info
 %common.attrib;
 %sect5info.role.attrib;
 %local.sect5info.attrib;
>
<!--end of sect5info.attlist-->]]>

<!-- ..... -->
<!-- Section (parallel to Sect*) ..... -->

<!ENTITY % section.content.module "INCLUDE">
<![ %section.content.module; [
<!ENTITY % section.module "INCLUDE">
<![ %section.module; [
<!ENTITY % local.section.attrib "">
<!ENTITY % section.role.attrib "%role.attrib;">

<!ENTITY % section.element "INCLUDE">
<![ %section.element; [
<!ELEMENT section %ho; (sectioninfo?,
  (%sect.title.content;),
  (%nav.class;)*,
  (((%divcomponent.mix;)+,
    ((%refentry.class;)*|(%section.class;)*|simplesect*))
   | (%refentry.class;)+|(%section.class;)+|simplesect+),
  (%nav.class;)*)
 %ubiq.inclusion;>
<!--end
 of section.element-->]]>
```

```
<!ENTITY % section.attlist "INCLUDE">
<![ %section.attlist; [
<!ATTLIST section
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %section.role.attrib;
  %local.section.attrib;
>
<!--end of section.attlist-->]]>
<!--end of section.module-->]]>

<!ENTITY % sectioninfo.module "INCLUDE">
<![ %sectioninfo.module; [
<!ENTITY % sectioninfo.role.attrib "%role.attrib;">
<!ENTITY % local.sectioninfo.attrib "">

<!ENTITY % sectioninfo.element "INCLUDE">
<![ %sectioninfo.element; [
<!ELEMENT sectioninfo %ho; ((%info.class;)+)
  %beginpage.exclusion;>
<!--end of sectioninfo.element-->]]>

<!ENTITY % sectioninfo.attlist "INCLUDE">
<![ %sectioninfo.attlist; [
<!ATTLIST sectioninfo
  %common.attrib;
  %sectioninfo.role.attrib;
  %local.sectioninfo.attrib;
>
<!--end of sectioninfo.attlist-->]]>
<!--end of sectioninfo.module-->]]>
<!--end of section.content.module-->]]>

<!-- ..................................................................... -->
<!-- Sect1, Sect2,
 Sect3, Sect4, Sect5 ..................................... -->

<!ENTITY % sect1.module "INCLUDE">
<![%sect1.module;[
<!ENTITY % local.sect1.attrib "">
<!ENTITY % sect1.role.attrib "%role.attrib;">

<!ENTITY % sect1.element "INCLUDE">
<![%sect1.element;[
<!ELEMENT sect1 %ho; (sect1info?, (%sect.title.content;), (%nav.class;)*,
  (((%divcomponent.mix;)+,
  ((%refentry.class;)* | sect2* | simplesect*))
```

```
 | (%refentry.class;)+ | sect2+ | simplesect+), (%nav.class;)*)
 %ubiq.inclusion;>
<!--end of sect1.element-->]]>

<!-- Renderas: Indicates the format in which the heading should
 appear -->


<!ENTITY % sect1.attlist "INCLUDE">
<![%sect1.attlist;[
<!ATTLIST sect1
 renderas (sect2
   |sect3
   |sect4
   |sect5)  #IMPLIED
 %label.attrib;
 %status.attrib;
 %common.attrib;
 %sect1.role.attrib;
 %local.sect1.attrib;
>
<!--end of sect1.attlist-->]]>
<!--end of sect1.module-->]]>

<!ENTITY % sect2.module "INCLUDE">
<![%sect2.module;[
<!ENTITY % local.sect2.attrib "">
<!ENTITY % sect2.role.attrib
 "%role.attrib;">

<!ENTITY % sect2.element "INCLUDE">
<![%sect2.element;[
<!ELEMENT sect2 %ho; (sect2info?, (%sect.title.content;), (%nav.class;)*,
 (((%divcomponent.mix;)+,
 ((%refentry.class;)* | sect3* | simplesect*))
 | (%refentry.class;)+ | sect3+ | simplesect+), (%nav.class;)*)>
<!--end of sect2.element-->]]>

<!-- Renderas: Indicates the format in which the heading should
 appear -->


<!ENTITY % sect2.attlist "INCLUDE">
<![%sect2.attlist;[
<!ATTLIST sect2
 renderas (sect1
   |sect3
   |sect4
```

```
    |sect5)  #IMPLIED
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %sect2.role.attrib;
  %local.sect2.attrib;
>
<!--end of sect2.attlist-->]]>
<!--end of sect2.module-->]]>

<!ENTITY % sect3.module "INCLUDE">
<![%sect3.module;[
<!ENTITY % local.sect3.attrib "">
<!ENTITY % sect3.role.attrib "%role.attrib;">

<!ENTITY % sect3.element "INCLUDE">
<![%sect3.element;[
<!ELEMENT sect3 %ho; (sect3info?, (%sect.title.content;), (%nav.class;)*,
  (((%divcomponent.mix;)+,
  ((%refentry.class;)*
 | sect4* | simplesect*))
  | (%refentry.class;)+ | sect4+ | simplesect+), (%nav.class;)*)>
<!--end of sect3.element-->]]>

<!-- Renderas: Indicates the format in which the heading should
  appear -->


<!ENTITY % sect3.attlist "INCLUDE">
<![%sect3.attlist;[
<!ATTLIST sect3
  renderas (sect1
    |sect2
    |sect4
    |sect5)  #IMPLIED
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %sect3.role.attrib;
  %local.sect3.attrib;
>
<!--end of sect3.attlist-->]]>
<!--end of sect3.module-->]]>

<!ENTITY % sect4.module "INCLUDE">
<![%sect4.module;[
<!ENTITY % local.sect4.attrib "">
<!ENTITY % sect4.role.attrib "%role.attrib;">
```

```
<!ENTITY % sect4.element "INCLUDE">
<![%sect4.element;[
<!ELEMENT sect4 %ho; (sect4info?, (%sect.title.content;), (%nav.class;)*,
  (((%divcomponent.mix;)+,
  ((%refentry.class;)* | sect5* | simplesect*))
  | (%refentry.class;)+ | sect5+ | simplesect+), (%nav.class;)*)>
<!--end of sect4.element-->]]>

<!-- Renderas: Indicates the format in
 which the heading should
  appear -->


<!ENTITY % sect4.attlist "INCLUDE">
<![%sect4.attlist;[
<!ATTLIST sect4
  renderas (sect1
    |sect2
    |sect3
    |sect5)  #IMPLIED
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %sect4.role.attrib;
  %local.sect4.attrib;
>
<!--end of sect4.attlist-->]]>
<!--end of sect4.module-->]]>

<!ENTITY % sect5.module "INCLUDE">
<![%sect5.module;[
<!ENTITY % local.sect5.attrib "">
<!ENTITY % sect5.role.attrib "%role.attrib;">

<!ENTITY % sect5.element "INCLUDE">
<![%sect5.element;[
<!ELEMENT sect5 %ho; (sect5info?, (%sect.title.content;), (%nav.class;)*,
  (((%divcomponent.mix;)+, ((%refentry.class;)* | simplesect*))
  | (%refentry.class;)+ | simplesect+), (%nav.class;)*)>
<!--end of sect5.element-->]]>

<!-- Renderas: Indicates the format in which the heading should
  appear -->


<!ENTITY % sect5.attlist "INCLUDE">
<![%sect5.attlist;[
```

```
<!ATTLIST sect5
  renderas (sect1
    |sect2
    |sect3
    |sect4)  #IMPLIED
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %sect5.role.attrib;
  %local.sect5.attrib;
>
<!--end
 of sect5.attlist-->]]>
<!--end of sect5.module-->]]>

<!ENTITY % simplesect.module "INCLUDE">
<![%simplesect.module;[
<!ENTITY % local.simplesect.attrib "">
<!ENTITY % simplesect.role.attrib "%role.attrib;">

<!ENTITY % simplesect.element "INCLUDE">
<![%simplesect.element;[
<!ELEMENT simplesect %ho; ((%sect.title.content;), (%divcomponent.mix;)+)
  %ubiq.inclusion;>
<!--end of simplesect.element-->]]>

<!ENTITY % simplesect.attlist "INCLUDE">
<![%simplesect.attlist;[
<!ATTLIST simplesect
  %common.attrib;
  %simplesect.role.attrib;
  %local.simplesect.attrib;
>
<!--end of simplesect.attlist-->]]>
<!--end of simplesect.module-->]]>

<!-- ..................................................................... -->
<!-- Bibliography ......................................................... -->

<!ENTITY % bibliography.content.module "INCLUDE">
<![%bibliography.content.module;[
<!ENTITY % bibliography.module "INCLUDE">
<![%bibliography.module;[
<!ENTITY
 % local.bibliography.attrib "">
<!ENTITY % bibliography.role.attrib "%role.attrib;">

<!ENTITY % bibliography.element "INCLUDE">
```

```
<![%bibliography.element;[
<!ELEMENT bibliography %ho; (bibliographyinfo?,
                    (%bookcomponent.title.content;)?,
                    (%component.mix;)*,
                    (bibliodiv+ | (biblioentry|bibliomixed)+))>
<!--end of bibliography.element-->]]>

<!ENTITY % bibliography.attlist "INCLUDE">
<![%bibliography.attlist;[
<!ATTLIST bibliography
  %status.attrib;
  %common.attrib;
  %bibliography.role.attrib;
  %local.bibliography.attrib;
>
<!--end of bibliography.attlist-->]]>
<!--end of bibliography.module-->]]>

<!ENTITY % bibliodiv.module "INCLUDE">
<![%bibliodiv.module;[
<!ENTITY % local.bibliodiv.attrib "">
<!ENTITY % bibliodiv.role.attrib "%role.attrib;">

<!ENTITY % bibliodiv.element "INCLUDE">
<![%bibliodiv.element;[
<!ELEMENT bibliodiv %ho; ((%sect.title.content;)?, (%component.mix;)*,
  (biblioentry|bibliomixed)+)>
<!--end
 of bibliodiv.element-->]]>

<!ENTITY % bibliodiv.attlist "INCLUDE">
<![%bibliodiv.attlist;[
<!ATTLIST bibliodiv
  %status.attrib;
  %common.attrib;
  %bibliodiv.role.attrib;
  %local.bibliodiv.attrib;
>
<!--end of bibliodiv.attlist-->]]>
<!--end of bibliodiv.module-->]]>
<!--end of bibliography.content.module-->]]>

<!-- ..... -->
<!-- Glossary ..... -->

<!ENTITY % glossary.content.module "INCLUDE">
<![%glossary.content.module;[
<!ENTITY % glossary.module "INCLUDE">
```

```
<![%glossary.module;[
<!ENTITY % local.glossary.attrib "">
<!ENTITY % glossary.role.attrib "%role.attrib;">

<!ENTITY % glossary.element "INCLUDE">
<![%glossary.element;[
<!ELEMENT glossary %ho; (glossaryinfo?,
                (%bookcomponent.title.content;)?,
                (%component.mix;)*,
                (glossdiv+ | glossentry+), bibliography?)>
<!--end
 of glossary.element-->]]>

<!ENTITY % glossary.attlist "INCLUDE">
<![%glossary.attlist;[
<!ATTLIST glossary
  %status.attrib;
  %common.attrib;
  %glossary.role.attrib;
  %local.glossary.attrib;
>
<!--end of glossary.attlist-->]]>
<!--end of glossary.module-->]]>

<!ENTITY % glossdiv.module "INCLUDE">
<![%glossdiv.module;[
<!ENTITY % local.glossdiv.attrib "">
<!ENTITY % glossdiv.role.attrib "%role.attrib;">

<!ENTITY % glossdiv.element "INCLUDE">
<![%glossdiv.element;[
<!ELEMENT glossdiv %ho; ((%sect.title.content;), (%component.mix;)*,
  glossentry+)>
<!--end of glossdiv.element-->]]>

<!ENTITY % glossdiv.attlist "INCLUDE">
<![%glossdiv.attlist;[
<!ATTLIST glossdiv
  %status.attrib;
  %common.attrib;
  %glossdiv.role.attrib;
  %local.glossdiv.attrib;
>
<!--end of glossdiv.attlist-->]]>
<!--end of glossdiv.module-->]]>
<!--end of glossary.content.module-->]]>

<!-- ..... -->
```

```
<!-- Index and SetIndex .....................................................
 -->

<!ENTITY % index.content.module "INCLUDE">
<![%index.content.module;[
<!ENTITY % indexes.module "INCLUDE">
<![%indexes.module;[
<!ENTITY % local.indexes.attrib "">
<!ENTITY % indexes.role.attrib "%role.attrib;">

<!ENTITY % index.element "INCLUDE">
<![%index.element;[
<!ELEMENT index %ho; (indexinfo?,
            (%bookcomponent.title.content;)?,
            (%component.mix;)*,
            (indexdiv* | indexentry*))
  %ndxterm.exclusion;>
<!--end of index.element-->]]>

<!ENTITY % index.attlist "INCLUDE">
<![%index.attlist;[
<!ATTLIST index
  type  CDATA  #IMPLIED
  %common.attrib;
  %indexes.role.attrib;
  %local.indexes.attrib;
>
<!--end of index.attlist-->]]>

<!ENTITY % setindex.element "INCLUDE">
<![%setindex.element;[
<!ELEMENT setindex %ho; (setindexinfo?,
              (%bookcomponent.title.content;)?,
              (%component.mix;)*,
              (indexdiv* | indexentry*))
  %ndxterm.exclusion;>
<!--end
 of setindex.element-->]]>

<!ENTITY % setindex.attlist "INCLUDE">
<![%setindex.attlist;[
<!ATTLIST setindex
  %common.attrib;
  %indexes.role.attrib;
  %local.indexes.attrib;
>
<!--end of setindex.attlist-->]]>
<!--end of indexes.module-->]]>
```

```
<!ENTITY % indexdiv.module "INCLUDE">
<![%indexdiv.module;[

<!-- SegmentedList in this content is useful for marking up permuted
   indices. -->

<!ENTITY % local.indexdiv.attrib "">
<!ENTITY % indexdiv.role.attrib "%role.attrib;">

<!ENTITY % indexdiv.element "INCLUDE">
<![%indexdiv.element;[
<!ELEMENT indexdiv %ho; ((%sect.title.content;)?, ((%indexdivcomponent.mix;)*,
 (indexentry+ | segmentedlist)))>
<!--end of indexdiv.element-->]]>

<!ENTITY % indexdiv.attlist "INCLUDE">
<![%indexdiv.attlist;[
<!ATTLIST indexdiv
 %common.attrib;
 %indexdiv.role.attrib;
 %local.indexdiv.attrib;
>
<!--end of indexdiv.attlist-->]]>
<!--end of indexdiv.module-->]]>

<!ENTITY % indexentry.module "INCLUDE">
<![%indexentry.module;[
<!-- Index entries appear
 in the index, not the text. -->

<!ENTITY % local.indexentry.attrib "">
<!ENTITY % indexentry.role.attrib "%role.attrib;">

<!ENTITY % indexentry.element "INCLUDE">
<![%indexentry.element;[
<!ELEMENT indexentry %ho; (primaryie, (seeie|seealsoie)*,
 (secondaryie, (seeie|seealsoie|tertiaryie)*)*)>
<!--end of indexentry.element-->]]>

<!ENTITY % indexentry.attlist "INCLUDE">
<![%indexentry.attlist;[
<!ATTLIST indexentry
 %common.attrib;
 %indexentry.role.attrib;
 %local.indexentry.attrib;
>
<!--end of indexentry.attlist-->]]>
```

```
<!--end of indexentry.module-->]]>

<!ENTITY % primsecterie.module "INCLUDE">
<![%primsecterie.module;[
<!ENTITY % local.primsecterie.attrib "">
<!ENTITY % primsecterie.role.attrib "%role.attrib;">

<!ENTITY % primaryie.element "INCLUDE">
<![%primaryie.element;[
<!ELEMENT primaryie %ho; (%ndxterm.char.mix;)*>
<!--end of primaryie.element-->]]>

<!-- to IndexTerms that these entries represent -->

<!ENTITY % primaryie.attlist "INCLUDE">
<![%primaryie.attlist;[
<!ATTLIST
 primaryie
  %linkends.attrib;  %common.attrib;
  %primsecterie.role.attrib;
  %local.primsecterie.attrib;
>
<!--end of primaryie.attlist-->]]>

<!ENTITY % secondaryie.element "INCLUDE">
<![%secondaryie.element;[
<!ELEMENT secondaryie %ho; (%ndxterm.char.mix;)*>
<!--end of secondaryie.element-->]]>

<!-- to IndexTerms that these entries represent -->

<!ENTITY % secondaryie.attlist "INCLUDE">
<![%secondaryie.attlist;[
<!ATTLIST secondaryie
  %linkends.attrib;  %common.attrib;
  %primsecterie.role.attrib;
  %local.primsecterie.attrib;
>
<!--end of secondaryie.attlist-->]]>

<!ENTITY % tertiaryie.element "INCLUDE">
<![%tertiaryie.element;[
<!ELEMENT tertiaryie %ho; (%ndxterm.char.mix;)*>
<!--end of tertiaryie.element-->]]>

<!-- to IndexTerms that these entries represent -->

<!ENTITY % tertiaryie.attlist "INCLUDE">
```

```
<![%tertiaryie.attlist;[
<!ATTLIST tertiaryie
  %linkends.attrib;  %common.attrib;
  %primsecterie.role.attrib;
  %local.primsecterie.attrib;
>
<!--end of tertiaryie.attlist-->]]>

<!--end
 of primsecterie.module-->]]>

<!ENTITY % seeie.module "INCLUDE">
<![%seeie.module;[
<!ENTITY % local.seeie.attrib "">
<!ENTITY % seeie.role.attrib "%role.attrib;">

<!ENTITY % seeie.element "INCLUDE">
<![%seeie.element;[
<!ELEMENT seeie %ho; (%ndxterm.char.mix;)*>
<!--end of seeie.element-->]]>

<!-- to IndexEntry to look up -->


<!ENTITY % seeie.attlist "INCLUDE">
<![%seeie.attlist;[
<!ATTLIST seeie
  %linkend.attrib;  %common.attrib;
  %seeie.role.attrib;
  %local.seeie.attrib;
>
<!--end of seeie.attlist-->]]>
<!--end of seeie.module-->]]>

<!ENTITY % seealsoie.module "INCLUDE">
<![%seealsoie.module;[
<!ENTITY % local.seealsoie.attrib "">
<!ENTITY % seealsoie.role.attrib "%role.attrib;">

<!ENTITY % seealsoie.element "INCLUDE">
<![%seealsoie.element;[
<!ELEMENT seealsoie %ho; (%ndxterm.char.mix;)*>
<!--end of seealsoie.element-->]]>

<!-- to related IndexEntries -->


<!ENTITY % seealsoie.attlist "INCLUDE">
```

```
<![%seealsoie.attlist;[
<!ATTLIST seealsoie
  %linkends.attrib;  %common.attrib;
  %seealsoie.role.attrib;
  %local.seealsoie.attrib;
>
<!--end
 of seealsoie.attlist-->]]>
<!--end of seealsoie.module-->]]>
<!--end of index.content.module-->]]>

<!-- ..... -->
<!-- RefEntry ..... -->

<!ENTITY % refentry.content.module "INCLUDE">
<![%refentry.content.module;[
<!ENTITY % refentry.module "INCLUDE">
<![%refentry.module;[
<!ENTITY % local.refentry.attrib "">
<!ENTITY % refentry.role.attrib "%role.attrib;">

<!ENTITY % refentry.element "INCLUDE">
<![%refentry.element;[
<!ELEMENT refentry %ho; (beginpage?,
                (%ndxterm.class;)*,
                refentryinfo?, refmeta?, (remark|%link.char.class;)*,
                refnamediv+, refsynopsisdiv?, (refsect1+|refsection+))
  %ubiq.inclusion;>
<!--end of refentry.element-->]]>

<!ENTITY % refentry.attlist "INCLUDE">
<![%refentry.attlist;[
<!ATTLIST refentry
  %status.attrib;
  %common.attrib;
  %refentry.role.attrib;
  %local.refentry.attrib;
>
<!--end
 of refentry.attlist-->]]>
<!--end of refentry.module-->]]>

<!ENTITY % refmeta.module "INCLUDE">
<![%refmeta.module;[
<!ENTITY % local.refmeta.attrib "">
<!ENTITY % refmeta.role.attrib "%role.attrib;">

<!ENTITY % refmeta.element "INCLUDE">
```

```
<![%refmeta.element;[
<!ELEMENT refmeta %ho; ((%ndxterm.class;)*,
                refentrytitle, manvolnum?, refmiscinfo*,
                (%ndxterm.class;)*)
  %beginpage.exclusion;>
<!--end of refmeta.element-->]]>

<!ENTITY % refmeta.attlist "INCLUDE">
<![%refmeta.attlist;[
<!ATTLIST refmeta
  %common.attrib;
  %refmeta.role.attrib;
  %local.refmeta.attrib;
>
<!--end of refmeta.attlist-->]]>
<!--end of refmeta.module-->]]>

<!ENTITY % refmiscinfo.module "INCLUDE">
<![%refmiscinfo.module;[
<!ENTITY % local.refmiscinfo.attrib "">
<!ENTITY % refmiscinfo.role.attrib "%role.attrib;">

<!ENTITY % refmiscinfo.element "INCLUDE">
<![%refmiscinfo.element;[
<!ELEMENT
 refmiscinfo %ho; (%docinfo.char.mix;)*>
<!--end of refmiscinfo.element-->]]>

<!-- Class: Freely assignable parameter; no default -->


<!ENTITY % refmiscinfo.attlist "INCLUDE">
<![%refmiscinfo.attlist;[
<!ATTLIST refmiscinfo
  class  CDATA  #IMPLIED
  %common.attrib;
  %refmiscinfo.role.attrib;
  %local.refmiscinfo.attrib;
>
<!--end of refmiscinfo.attlist-->]]>
<!--end of refmiscinfo.module-->]]>

<!ENTITY % refnamediv.module "INCLUDE">
<![%refnamediv.module;[
<!ENTITY % local.refnamediv.attrib "">
<!ENTITY % refnamediv.role.attrib "%role.attrib;">

<!ENTITY % refnamediv.element "INCLUDE">
```

```
<![%refnamediv.element;[
<!ELEMENT refnamediv %ho; (refdescriptor?, refname+, refpurpose, refclass*,
  (remark|%link.char.class;)*)>
<!--end of refnamediv.element-->]]>

<!ENTITY % refnamediv.attlist "INCLUDE">
<![%refnamediv.attlist;[
<!ATTLIST refnamediv
  %common.attrib;
  %refnamediv.role.attrib;
  %local.refnamediv.attrib;
>
<!--end of refnamediv.attlist-->]]>
<!--end of refnamediv.module-->]]>

<!ENTITY
 % refdescriptor.module "INCLUDE">
<![%refdescriptor.module;[
<!ENTITY % local.refdescriptor.attrib "">
<!ENTITY % refdescriptor.role.attrib "%role.attrib;">

<!ENTITY % refdescriptor.element "INCLUDE">
<![%refdescriptor.element;[
<!ELEMENT refdescriptor %ho; (%refname.char.mix;)*>
<!--end of refdescriptor.element-->]]>

<!ENTITY % refdescriptor.attlist "INCLUDE">
<![%refdescriptor.attlist;[
<!ATTLIST refdescriptor
  %common.attrib;
  %refdescriptor.role.attrib;
  %local.refdescriptor.attrib;
>
<!--end of refdescriptor.attlist-->]]>
<!--end of refdescriptor.module-->]]>

<!ENTITY % refname.module "INCLUDE">
<![%refname.module;[
<!ENTITY % local.refname.attrib "">
<!ENTITY % refname.role.attrib "%role.attrib;">

<!ENTITY % refname.element "INCLUDE">
<![%refname.element;[
<!ELEMENT refname %ho; (%refname.char.mix;)*>
<!--end of refname.element-->]]>

<!ENTITY % refname.attlist "INCLUDE">
<![%refname.attlist;[
```

```
<!ATTLIST refname
  %common.attrib;
  %refname.role.attrib;
  %local.refname.attrib;
>
<!--end
 of refname.attlist-->]]>
<!--end of refname.module-->]]>

<!ENTITY % refpurpose.module "INCLUDE">
<![%refpurpose.module;[
<!ENTITY % local.refpurpose.attrib "">
<!ENTITY % refpurpose.role.attrib "%role.attrib;">

<!ENTITY % refpurpose.element "INCLUDE">
<![%refpurpose.element;[
<!ELEMENT refpurpose %ho; (%refinline.char.mix;)*>
<!--end of refpurpose.element-->]]>

<!ENTITY % refpurpose.attlist "INCLUDE">
<![%refpurpose.attlist;[
<!ATTLIST refpurpose
  %common.attrib;
  %refpurpose.role.attrib;
  %local.refpurpose.attrib;
>
<!--end of refpurpose.attlist-->]]>
<!--end of refpurpose.module-->]]>

<!ENTITY % refclass.module "INCLUDE">
<![%refclass.module;[
<!ENTITY % local.refclass.attrib "">
<!ENTITY % refclass.role.attrib "%role.attrib;">

<!ENTITY % refclass.element "INCLUDE">
<![%refclass.element;[
<!ELEMENT refclass %ho; (%refclass.char.mix;)*>
<!--end of refclass.element-->]]>

<!ENTITY % refclass.attlist "INCLUDE">
<![%refclass.attlist;[
<!ATTLIST
 refclass
  %common.attrib;
  %refclass.role.attrib;
  %local.refclass.attrib;
>
<!--end of refclass.attlist-->]]>
```

```
<!--end of refclass.module-->]]>

<!ENTITY % refsynopsisdiv.module "INCLUDE">
<![%refsynopsisdiv.module;[
<!ENTITY % local.refsynopsisdiv.attrib "">
<!ENTITY % refsynopsisdiv.role.attrib "%role.attrib;">

<!ENTITY % refsynopsisdiv.element "INCLUDE">
<![%refsynopsisdiv.element;[
<!ELEMENT refsynopsisdiv %ho; (refsynopsisdivinfo?, (%refsect.title.content;)?,
  (((%refcomponent.mix;)+, refsect2*) | (refsect2+)))>
<!--end of refsynopsisdiv.element-->]]>

<!ENTITY % refsynopsisdiv.attlist "INCLUDE">
<![%refsynopsisdiv.attlist;[
<!ATTLIST refsynopsisdiv
  %common.attrib;
  %refsynopsisdiv.role.attrib;
  %local.refsynopsisdiv.attrib;
>
<!--end of refsynopsisdiv.attlist-->]]>
<!--end of refsynopsisdiv.module-->]]>

<!ENTITY % refsection.module "INCLUDE">
<![%refsection.module;[
<!ENTITY % local.refsection.attrib "">
<!ENTITY % refsection.role.attrib "%role.attrib;">

<!ENTITY
 % refsection.element "INCLUDE">
<![%refsection.element;[
<!ELEMENT refsection %ho; (refsectioninfo?, (%refsect.title.content;),
  (((%refcomponent.mix;)+, refsection*) | refsection+))>
<!--end of refsection.element-->]]>

<!ENTITY % refsection.attlist "INCLUDE">
<![%refsection.attlist;[
<!ATTLIST refsection
  %status.attrib;
  %common.attrib;
  %refsection.role.attrib;
  %local.refsection.attrib;
>
<!--end of refsection.attlist-->]]>
<!--end of refsection.module-->]]>

<!ENTITY % refsect1.module "INCLUDE">
<![%refsect1.module;[
```

```
<!ENTITY % local.refsect1.attrib "">
<!ENTITY % refsect1.role.attrib "%role.attrib;">

<!ENTITY % refsect1.element "INCLUDE">
<![%refsect1.element;[
<!ELEMENT refsect1 %ho; (refsect1info?, (%refsect.title.content;),
  (((%refcomponent.mix;)+, refsect2*) | refsect2+))>
<!--end of refsect1.element-->]]>

<!ENTITY % refsect1.attlist "INCLUDE">
<![%refsect1.attlist;[
<!ATTLIST refsect1
  %status.attrib;
  %common.attrib;
  %refsect1.role.attrib;
  %local.refsect1.attrib;
>
<!--end
 of refsect1.attlist-->]]>
<!--end of refsect1.module-->]]>

<!ENTITY % refsect2.module "INCLUDE">
<![%refsect2.module;[
<!ENTITY % local.refsect2.attrib "">
<!ENTITY % refsect2.role.attrib "%role.attrib;">

<!ENTITY % refsect2.element "INCLUDE">
<![%refsect2.element;[
<!ELEMENT refsect2 %ho; (refsect2info?, (%refsect.title.content;),
 (((%refcomponent.mix;)+, refsect3*) | refsect3+))>
<!--end of refsect2.element-->]]>

<!ENTITY % refsect2.attlist "INCLUDE">
<![%refsect2.attlist;[
<!ATTLIST refsect2
  %status.attrib;
  %common.attrib;
  %refsect2.role.attrib;
  %local.refsect2.attrib;
>
<!--end of refsect2.attlist-->]]>
<!--end of refsect2.module-->]]>

<!ENTITY % refsect3.module "INCLUDE">
<![%refsect3.module;[
<!ENTITY % local.refsect3.attrib "">
<!ENTITY % refsect3.role.attrib "%role.attrib;">
```

```
<!ENTITY % refsect3.element "INCLUDE">
<![%refsect3.element;[
<!ELEMENT refsect3 %ho; (refsect3info?, (%refsect.title.content;),
 (%refcomponent.mix;)+)>
<!--end of refsect3.element-->]]>

<!ENTITY
 % refsect3.attlist "INCLUDE">
<![%refsect3.attlist;[
<!ATTLIST refsect3
  %status.attrib;
  %common.attrib;
  %refsect3.role.attrib;
  %local.refsect3.attrib;
>
<!--end of refsect3.attlist-->]]>
<!--end of refsect3.module-->]]>
<!--end of refentry.content.module-->]]>

<!-- ..... -->
<!-- Article ..... -->

<!ENTITY % article.module "INCLUDE">
<![%article.module;[
<!-- An Article is a chapter-level, stand-alone document that is often,
    but need not be, collected into a Book. -->

<!ENTITY % local.article.attrib "">
<!ENTITY % article.role.attrib "%role.attrib;">

<!ENTITY % article.element "INCLUDE">
<![%article.element;[
<!ELEMENT article %ho; ((%div.title.content;)?, articleinfo?, tocchap?, lot*,
   (%bookcomponent.content;),
   ((%nav.class;) | (%appendix.class;) | ackno)*)
  %ubiq.inclusion;>
<!--end of article.element-->]]>

<!-- Class:
 Indicates the type of a particular article;
  all articles have the same structure and general purpose.
  No default. -->
<!-- ParentBook: ID of the enclosing Book -->


<!ENTITY % article.attlist "INCLUDE">
<![%article.attlist;[
<!ATTLIST article
```

```
  class  (journalarticle
    |productsheet
    |whitepaper
    |techreport
                        |specification
    |faq)  #IMPLIED
  parentbook IDREF  #IMPLIED
  %status.attrib;
  %common.attrib;
  %article.role.attrib;
  %local.article.attrib;
>
<!--end of article.attlist-->]]>
<!--end of article.module-->]]>

<!-- End of DocBook document hierarchy module V4.3 ..... -->
<!-- ..... -->
```

Found in path(s):
* /docbook-xml-4-5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-4.3/dbhierx.mod
No license file was found, but licenses were detected in source scan.

```
03 13:23:24Z nwalsh $

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```

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```
<!-- ..... -->
<!-- DocBook character entities module V4.5 ..... -->
<!-- File dbcentx.mod ..... -->
```

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Standards (OASIS).

$Id: dbcentx.mod 6340 2006-10-03 13:23:24Z nwalsh $

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Please direct all questions, bug reports, or suggestions for
changes to the docbook@lists.oasis-open.org mailing list. For more
information, see http://www.oasis-open.org/docbook/.
-->

<!-- ..... -->

<!-- This module contains the entity declarations for the standard ISO
entity sets used by DocBook.

In DTD driver files referring to this module, please use an entity
declaration that uses the public identifier shown below:

<!ENTITY % dbcent PUBLIC
"-//OASIS//ENTITIES DocBook Character Entities V4.5//EN"
"dbcentx.mod">
%dbcent;

See the documentation for detailed information on the parameter
entity and module scheme used in DocBook, customizing DocBook and
planning for interchange, and changes made since the last release
of DocBook.
-->

<!-- ..... -->

```
<![%sgml.features;[

<!ENTITY % ISOamsa.module "INCLUDE">
<![ %ISOamsa.module; [
<!ENTITY % ISOamsa PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Arrow Relations//EN">
<!--end of ISOamsa.module-->]]>

<!ENTITY % ISOamsb.module "INCLUDE">
<![ %ISOamsb.module; [
<!ENTITY % ISOamsb PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Binary Operators//EN">
<!--end of ISOamsb.module-->]]>

<!ENTITY % ISOamsc.module "INCLUDE">
<![ %ISOamsc.module; [
<!ENTITY % ISOamsc PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Delimiters//EN">
<!--end of ISOamsc.module-->]]>

<!ENTITY % ISOamsn.module "INCLUDE">
<![ %ISOamsn.module; [
<!ENTITY % ISOamsn PUBLIC
"ISO 8879:1986//ENTITIES
 Added Math Symbols: Negated Relations//EN">
<!--end of ISOamsn.module-->]]>

<!ENTITY % ISOamso.module "INCLUDE">
<![ %ISOamso.module; [
<!ENTITY % ISOamso PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Ordinary//EN">
<!--end of ISOamso.module-->]]>

<!ENTITY % ISOamsr.module "INCLUDE">
<![ %ISOamsr.module; [
<!ENTITY % ISOamsr PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Relations//EN">
<!--end of ISOamsr.module-->]]>

<!ENTITY % ISObox.module "INCLUDE">
<![ %ISObox.module; [
<!ENTITY % ISObox PUBLIC
"ISO 8879:1986//ENTITIES Box and Line Drawing//EN">
<!--end of ISObox.module-->]]>

<!ENTITY % ISOcyr1.module "INCLUDE">
<![ %ISOcyr1.module; [
<!ENTITY % ISOcyr1 PUBLIC
```

"ISO 8879:1986//ENTITIES Russian Cyrillic//EN">
<!--end of ISOcyr1.module-->]]>

<!ENTITY % ISOcyr2.module "INCLUDE">
<![%ISOcyr2.module; [
<!ENTITY % ISOcyr2 PUBLIC
"ISO 8879:1986//ENTITIES Non-Russian Cyrillic//EN">
<!--end of ISOcyr2.module-->]]>

<!ENTITY % ISOdia.module "INCLUDE">
<![%ISOdia.module; [
<!ENTITY
 % ISOdia PUBLIC
"ISO 8879:1986//ENTITIES Diacritical Marks//EN">
<!--end of ISOdia.module-->]]>

<!ENTITY % ISOgrk1.module "INCLUDE">
<![%ISOgrk1.module; [
<!ENTITY % ISOgrk1 PUBLIC
"ISO 8879:1986//ENTITIES Greek Letters//EN">
<!--end of ISOgrk1.module-->]]>

<!ENTITY % ISOgrk2.module "INCLUDE">
<![%ISOgrk2.module; [
<!ENTITY % ISOgrk2 PUBLIC
"ISO 8879:1986//ENTITIES Monotoniko Greek//EN">
<!--end of ISOgrk2.module-->]]>

<!ENTITY % ISOgrk3.module "INCLUDE">
<![%ISOgrk3.module; [
<!ENTITY % ISOgrk3 PUBLIC
"ISO 8879:1986//ENTITIES Greek Symbols//EN">
<!--end of ISOgrk3.module-->]]>

<!ENTITY % ISOgrk4.module "INCLUDE">
<![%ISOgrk4.module; [
<!ENTITY % ISOgrk4 PUBLIC
"ISO 8879:1986//ENTITIES Alternative Greek Symbols//EN">
<!--end of ISOgrk4.module-->]]>

<!ENTITY % ISOlat1.module "INCLUDE">
<![%ISOlat1.module; [
<!ENTITY % ISOlat1 PUBLIC
"ISO 8879:1986//ENTITIES Added Latin 1//EN">
<!--end of ISOlat1.module-->]]>

<!ENTITY % ISOlat2.module "INCLUDE">
<![%ISOlat2.module;

```
 [
<!ENTITY % ISOlat2 PUBLIC
"ISO 8879:1986//ENTITIES Added Latin 2//EN">
<!--end of ISOlat2.module-->]]>

<!ENTITY % ISOnum.module "INCLUDE">
<![ %ISOnum.module; [
<!ENTITY % ISOnum PUBLIC
"ISO 8879:1986//ENTITIES Numeric and Special Graphic//EN">
<!--end of ISOnum.module-->]]>

<!ENTITY % ISOpub.module "INCLUDE">
<![ %ISOpub.module; [
<!ENTITY % ISOpub PUBLIC
"ISO 8879:1986//ENTITIES Publishing//EN">
<!--end of ISOpub.module-->]]>

<!ENTITY % ISOtech.module "INCLUDE">
<![ %ISOtech.module; [
<!ENTITY % ISOtech PUBLIC
"ISO 8879:1986//ENTITIES General Technical//EN">
<!--end of ISOtech.module-->]]>

<!--end of sgml.features-->]]>

<![%xml.features;[

<!ENTITY % ISOamsa.module "INCLUDE">
<![%ISOamsa.module;[
<!ENTITY % ISOamsa PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Arrow Relations//EN//XML"
"ent/isoamsa.ent">
<!--end of ISOamsa.module-->]]>

<!ENTITY % ISOamsb.module "INCLUDE">
<![%ISOamsb.module;[
<!ENTITY % ISOamsb PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Binary
 Operators//EN//XML"
"ent/isoamsb.ent">
<!--end of ISOamsb.module-->]]>

<!ENTITY % ISOamsc.module "INCLUDE">
<![%ISOamsc.module;[
<!ENTITY % ISOamsc PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Delimiters//EN//XML"
"ent/isoamsc.ent">
<!--end of ISOamsc.module-->]]>
```

```
<!ENTITY % ISOamsn.module "INCLUDE">
<![%ISOamsn.module;[
<!ENTITY % ISOamsn PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Negated Relations//EN//XML"
"ent/isoamsn.ent">
<!--end of ISOamsn.module-->]]>

<!ENTITY % ISOamso.module "INCLUDE">
<![%ISOamso.module;[
<!ENTITY % ISOamso PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Ordinary//EN//XML"
"ent/isoamso.ent">
<!--end of ISOamso.module-->]]>

<!ENTITY % ISOamsr.module "INCLUDE">
<![%ISOamsr.module;[
<!ENTITY % ISOamsr PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Relations//EN//XML"
"ent/isoamsr.ent">
<!--end of ISOamsr.module-->]]>

<!ENTITY % ISObox.module "INCLUDE">
<![%ISObox.module;[
<!ENTITY % ISObox PUBLIC
"ISO 8879:1986//ENTITIES Box and Line
 Drawing//EN//XML"
"ent/isobox.ent">
<!--end of ISObox.module-->]]>

<!ENTITY % ISOcyr1.module "INCLUDE">
<![%ISOcyr1.module;[
<!ENTITY % ISOcyr1 PUBLIC
"ISO 8879:1986//ENTITIES Russian Cyrillic//EN//XML"
"ent/isocyr1.ent">
<!--end of ISOcyr1.module-->]]>

<!ENTITY % ISOcyr2.module "INCLUDE">
<![%ISOcyr2.module;[
<!ENTITY % ISOcyr2 PUBLIC
"ISO 8879:1986//ENTITIES Non-Russian Cyrillic//EN//XML"
"ent/isocyr2.ent">
<!--end of ISOcyr2.module-->]]>

<!ENTITY % ISOdia.module "INCLUDE">
<![%ISOdia.module;[
<!ENTITY % ISOdia PUBLIC
"ISO 8879:1986//ENTITIES Diacritical Marks//EN//XML"
```

"ent/isodia.ent">
<!--end of ISOdia.module-->]]>

<!ENTITY % ISOgrk1.module "INCLUDE">
<![%ISOgrk1.module;[
<!ENTITY % ISOgrk1 PUBLIC
"ISO 8879:1986//ENTITIES Greek Letters//EN//XML"
"ent/isogrk1.ent">
<!--end of ISOgrk1.module-->]]>

<!ENTITY % ISOgrk2.module "INCLUDE">
<![%ISOgrk2.module;[
<!ENTITY % ISOgrk2 PUBLIC
"ISO 8879:1986//ENTITIES Monotoniko Greek//EN//XML"
"ent/isogrk2.ent">
<!--end of ISOgrk2.module-->]]>

<!ENTITY
 % ISOgrk3.module "INCLUDE">
<![%ISOgrk3.module;[
<!ENTITY % ISOgrk3 PUBLIC
"ISO 8879:1986//ENTITIES Greek Symbols//EN//XML"
"ent/isogrk3.ent">
<!--end of ISOgrk3.module-->]]>

<!ENTITY % ISOgrk4.module "INCLUDE">
<![%ISOgrk4.module;[
<!ENTITY % ISOgrk4 PUBLIC
"ISO 8879:1986//ENTITIES Alternative Greek Symbols//EN//XML"
"ent/isogrk4.ent">
<!--end of ISOgrk4.module-->]]>

<!ENTITY % ISOlat1.module "INCLUDE">
<![%ISOlat1.module;[
<!ENTITY % ISOlat1 PUBLIC
"ISO 8879:1986//ENTITIES Added Latin 1//EN//XML"
"ent/isolat1.ent">
<!--end of ISOlat1.module-->]]>

<!ENTITY % ISOlat2.module "INCLUDE">
<![%ISOlat2.module;[
<!ENTITY % ISOlat2 PUBLIC
"ISO 8879:1986//ENTITIES Added Latin 2//EN//XML"
"ent/isolat2.ent">
<!--end of ISOlat2.module-->]]>

<!ENTITY % ISOnum.module "INCLUDE">
<![%ISOnum.module;[

```
<!ENTITY % ISOnum PUBLIC
"ISO 8879:1986//ENTITIES Numeric and Special Graphic//EN//XML"
"ent/isonum.ent">
<!--end of ISOnum.module-->]]>

<!ENTITY % ISOpub.module "INCLUDE">
<![%ISOpub.module;[
<!ENTITY
 % ISOpub PUBLIC
"ISO 8879:1986//ENTITIES Publishing//EN//XML"
"ent/isopub.ent">
<!--end of ISOpub.module-->]]>

<!ENTITY % ISOtech.module "INCLUDE">
<![%ISOtech.module;[
<!ENTITY % ISOtech PUBLIC
"ISO 8879:1986//ENTITIES General Technical//EN//XML"
"ent/isotech.ent">
<!--end of ISOtech.module-->]]>

<!--end of xml.features-->]]>

<![ %ISOamsa.module; [
%ISOamsa;
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<![ %ISOamsb.module; [
%ISOamsb;
]]>

<![ %ISOamsc.module; [
%ISOamsc;
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<![ %ISOamsn.module; [
%ISOamsn;
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<![ %ISOamso.module; [
%ISOamso;
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<![ %ISOamsr.module; [
%ISOamsr;
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<![ %ISObox.module; [
%ISObox;
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]]>

<![%ISOcyr1.module; [
%ISOcyr1;
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<![%ISOcyr2.module; [
%ISOcyr2;
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<![%ISOdia.module; [
%ISOdia;
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<![%ISOgrk1.module; [
%ISOgrk1;
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<![%ISOlat1.module; [
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<![%ISOlat2.module; [
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]]>

<![%ISOnum.module; [
%ISOnum;
]]>

<![%ISOpub.module;
 [
%ISOpub;
]]>

<![%ISOtech.module; [

%ISOtech;
]]>

<!-- End of DocBook character entity sets module V4.5 ..... -->
<!-- ..... -->

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<!-- ..... -->
<!-- DocBook notations module V4.3 ..... -->
<!-- File dbnotnx.mod ..... -->

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```
   $Id: dbnotnx.mod,v 1.23 2004/03/31 10:40:22 nwalsh Exp $

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   changes to the docbook@lists.oasis-open.org mailing list. For more
   information, see http://www.oasis-open.org/docbook/.
-->

<!-- ..... -->

<!-- This module contains the notation declarations used by DocBook.

   In DTD driver files referring to this module, please use an entity
   declaration that uses the public identifier shown below:

   <!ENTITY % dbnotn PUBLIC
   "-//OASIS//ENTITIES DocBook Notations V4.3//EN"
   "dbnotnx.mod">
   %dbnotn;

   See the documentation for detailed
 information on the parameter
   entity and module scheme used in DocBook, customizing DocBook and
   planning for interchange, and changes made since the last release
   of DocBook.
-->

<!ENTITY % local.notation.class "">
<!ENTITY % notation.class
  "BMP| CGM-CHAR | CGM-BINARY | CGM-CLEAR | DITROFF | DVI
  | EPS | EQN | FAX | GIF | GIF87a | GIF89a
  | JPG | JPEG | IGES | PCX
  | PIC | PNG | PS | SGML | TBL | TEX | TIFF | WMF | WPG
            | SVG | PDF | SWF
  | linespecific
  %local.notation.class;">
```

<!NOTATION BMP PUBLIC
"+//ISBN 0-7923-94.2-1::Graphic Notation//NOTATION Microsoft Windows bitmap//EN">
<!NOTATION CGM-CHAR PUBLIC "ISO 8632/2//NOTATION Character encoding//EN">
<!NOTATION CGM-BINARY PUBLIC "ISO 8632/3//NOTATION Binary encoding//EN">
<!NOTATION CGM-CLEAR PUBLIC "ISO 8632/4//NOTATION Clear text encoding//EN">
<!NOTATION DITROFF SYSTEM "DITROFF">
<!NOTATION DVI SYSTEM "DVI">
<!NOTATION EPS PUBLIC
"+//ISBN 0-201-18127-4::Adobe//NOTATION PostScript Language
 Ref. Manual//EN">
<!NOTATION EQN SYSTEM "EQN">
<!NOTATION FAX PUBLIC
"-//USA-DOD//NOTATION CCITT Group 4 Facsimile Type 1 Untiled Raster//EN">
<!NOTATION GIF SYSTEM "GIF">
<!NOTATION GIF87a PUBLIC
"-//CompuServe//NOTATION Graphics Interchange Format 87a//EN">

<!NOTATION GIF89a PUBLIC
"-//CompuServe//NOTATION Graphics Interchange Format 89a//EN">
<!NOTATION JPG SYSTEM "JPG">
<!NOTATION JPEG SYSTEM "JPG">
<!NOTATION IGES PUBLIC
"-//USA-DOD//NOTATION (ASME/ANSI Y14.26M-1987) Initial Graphics Exchange Specification//EN">
<!NOTATION PCX PUBLIC
"+//ISBN 0-7923-94.2-1::Graphic Notation//NOTATION ZSoft PCX bitmap//EN">
<!NOTATION PIC SYSTEM "PIC">
<!NOTATION PNG SYSTEM "http://www.w3.org/TR/REC-png">
<!NOTATION PS SYSTEM "PS">
<!NOTATION SGML PUBLIC
"ISO 8879:1986//NOTATION Standard Generalized Markup Language//EN">
<!NOTATION TBL SYSTEM "TBL">
<!NOTATION TEX PUBLIC
"+//ISBN 0-201-13448-9::Knuth//NOTATION The TeXbook//EN">
<!NOTATION TIFF SYSTEM
 "TIFF">
<!NOTATION WMF PUBLIC
"+//ISBN 0-7923-94.2-1::Graphic Notation//NOTATION Microsoft Windows Metafile//EN">
<!NOTATION WPG SYSTEM "WPG"> <!--WordPerfect Graphic format-->
<!NOTATION SVG SYSTEM "http://www.w3.org/TR/SVG/">
<!NOTATION PDF SYSTEM "http://www.adobe.com/products/acrobat/adobepdf.html">
<!NOTATION SWF SYSTEM "http://www.macromedia.com/software/flash">
<!NOTATION linespecific SYSTEM "linespecific">

<!-- End of DocBook notations module V4.3 ..... -->
<!-- ..... -->

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```
<!-- ....................................................................... -->
<!-- DocBook character entities module V4.3 ................................ -->
<!-- File dbcentx.mod ...................................................... -->

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   information, see http://www.oasis-open.org/docbook/.
-->

<!-- ....................................................................... -->

<!-- This module contains the entity declarations for the standard ISO
   entity sets used by DocBook.

   In DTD driver files referring to this module, please use an entity
   declaration that uses the public identifier shown below:

   <!ENTITY % dbcent PUBLIC
   "-//OASIS//ENTITIES DocBook Character Entities V4.3//EN"
   "dbcentx.mod">
   %dbcent;

    See the documentation for detailed information on the parameter
   entity and module scheme used in DocBook, customizing DocBook and
```

```
   planning for interchange, and changes made since the last release
   of DocBook.
-->

<!-- ..................................................................... -->

<![%sgml.features;[

<!ENTITY % ISOamsa.module "INCLUDE">
<![ %ISOamsa.module; [
<!ENTITY % ISOamsa PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Arrow Relations//EN">
<!--end of ISOamsa.module-->]]>

<!ENTITY % ISOamsb.module "INCLUDE">
<![ %ISOamsb.module; [
<!ENTITY % ISOamsb PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Binary Operators//EN">
<!--end of ISOamsb.module-->]]>

<!ENTITY % ISOamsc.module "INCLUDE">
<![ %ISOamsc.module; [
<!ENTITY % ISOamsc PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Delimiters//EN">
<!--end of ISOamsc.module-->]]>

<!ENTITY % ISOamsn.module "INCLUDE">
<![ %ISOamsn.module; [
<!ENTITY % ISOamsn PUBLIC
"ISO 8879:1986//ENTITIES
 Added Math Symbols: Negated Relations//EN">
<!--end of ISOamsn.module-->]]>

<!ENTITY % ISOamso.module "INCLUDE">
<![ %ISOamso.module; [
<!ENTITY % ISOamso PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Ordinary//EN">
<!--end of ISOamso.module-->]]>

<!ENTITY % ISOamsr.module "INCLUDE">
<![ %ISOamsr.module; [
<!ENTITY % ISOamsr PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Relations//EN">
<!--end of ISOamsr.module-->]]>

<!ENTITY % ISObox.module "INCLUDE">
<![ %ISObox.module; [
<!ENTITY % ISObox PUBLIC
```

```
"ISO 8879:1986//ENTITIES Box and Line Drawing//EN">
<!--end of ISObox.module-->]]>

<!ENTITY % ISOcyr1.module "INCLUDE">
<![ %ISOcyr1.module; [
<!ENTITY % ISOcyr1 PUBLIC
"ISO 8879:1986//ENTITIES Russian Cyrillic//EN">
<!--end of ISOcyr1.module-->]]>

<!ENTITY % ISOcyr2.module "INCLUDE">
<![ %ISOcyr2.module; [
<!ENTITY % ISOcyr2 PUBLIC
"ISO 8879:1986//ENTITIES Non-Russian Cyrillic//EN">
<!--end of ISOcyr2.module-->]]>

<!ENTITY % ISOdia.module "INCLUDE">
<![ %ISOdia.module;
 [
<!ENTITY % ISOdia PUBLIC
"ISO 8879:1986//ENTITIES Diacritical Marks//EN">
<!--end of ISOdia.module-->]]>

<!ENTITY % ISOgrk1.module "INCLUDE">
<![ %ISOgrk1.module; [
<!ENTITY % ISOgrk1 PUBLIC
"ISO 8879:1986//ENTITIES Greek Letters//EN">
<!--end of ISOgrk1.module-->]]>

<!ENTITY % ISOgrk2.module "INCLUDE">
<![ %ISOgrk2.module; [
<!ENTITY % ISOgrk2 PUBLIC
"ISO 8879:1986//ENTITIES Monotoniko Greek//EN">
<!--end of ISOgrk2.module-->]]>

<!ENTITY % ISOgrk3.module "INCLUDE">
<![ %ISOgrk3.module; [
<!ENTITY % ISOgrk3 PUBLIC
"ISO 8879:1986//ENTITIES Greek Symbols//EN">
<!--end of ISOgrk3.module-->]]>

<!ENTITY % ISOgrk4.module "INCLUDE">
<![ %ISOgrk4.module; [
<!ENTITY % ISOgrk4 PUBLIC
"ISO 8879:1986//ENTITIES Alternative Greek Symbols//EN">
<!--end of ISOgrk4.module-->]]>

<!ENTITY % ISOlat1.module "INCLUDE">
<![ %ISOlat1.module; [
```

```
<!ENTITY % ISOlat1 PUBLIC
"ISO 8879:1986//ENTITIES Added Latin 1//EN">
<!--end of ISOlat1.module-->]]>

<!ENTITY % ISOlat2.module "INCLUDE">
<![ %ISOlat2.module;
 [
<!ENTITY % ISOlat2 PUBLIC
"ISO 8879:1986//ENTITIES Added Latin 2//EN">
<!--end of ISOlat2.module-->]]>

<!ENTITY % ISOnum.module "INCLUDE">
<![ %ISOnum.module; [
<!ENTITY % ISOnum PUBLIC
"ISO 8879:1986//ENTITIES Numeric and Special Graphic//EN">
<!--end of ISOnum.module-->]]>

<!ENTITY % ISOpub.module "INCLUDE">
<![ %ISOpub.module; [
<!ENTITY % ISOpub PUBLIC
"ISO 8879:1986//ENTITIES Publishing//EN">
<!--end of ISOpub.module-->]]>

<!ENTITY % ISOtech.module "INCLUDE">
<![ %ISOtech.module; [
<!ENTITY % ISOtech PUBLIC
"ISO 8879:1986//ENTITIES General Technical//EN">
<!--end of ISOtech.module-->]]>

<!--end of sgml.features-->]]>

<![%xml.features;[

<!ENTITY % ISOamsa.module "INCLUDE">
<![%ISOamsa.module;[
<!ENTITY % ISOamsa PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Arrow Relations//EN//XML"
"ent/iso-amsa.ent">
<!--end of ISOamsa.module-->]]>

<!ENTITY % ISOamsb.module "INCLUDE">
<![%ISOamsb.module;[
<!ENTITY % ISOamsb PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Binary
 Operators//EN//XML"
"ent/iso-amsb.ent">
<!--end of ISOamsb.module-->]]>
```

```
<!ENTITY % ISOamsc.module "INCLUDE">
<![%ISOamsc.module;[
<!ENTITY % ISOamsc PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Delimiters//EN//XML"
"ent/iso-amsc.ent">
<!--end of ISOamsc.module-->]]>

<!ENTITY % ISOamsn.module "INCLUDE">
<![%ISOamsn.module;[
<!ENTITY % ISOamsn PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Negated Relations//EN//XML"
"ent/iso-amsn.ent">
<!--end of ISOamsn.module-->]]>

<!ENTITY % ISOamso.module "INCLUDE">
<![%ISOamso.module;[
<!ENTITY % ISOamso PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Ordinary//EN//XML"
"ent/iso-amso.ent">
<!--end of ISOamso.module-->]]>

<!ENTITY % ISOamsr.module "INCLUDE">
<![%ISOamsr.module;[
<!ENTITY % ISOamsr PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Relations//EN//XML"
"ent/iso-amsr.ent">
<!--end of ISOamsr.module-->]]>

<!ENTITY % ISObox.module "INCLUDE">
<![%ISObox.module;[
<!ENTITY % ISObox PUBLIC
"ISO 8879:1986//ENTITIES
 Box and Line Drawing//EN//XML"
"ent/iso-box.ent">
<!--end of ISObox.module-->]]>

<!ENTITY % ISOcyr1.module "INCLUDE">
<![%ISOcyr1.module;[
<!ENTITY % ISOcyr1 PUBLIC
"ISO 8879:1986//ENTITIES Russian Cyrillic//EN//XML"
"ent/iso-cyr1.ent">
<!--end of ISOcyr1.module-->]]>

<!ENTITY % ISOcyr2.module "INCLUDE">
<![%ISOcyr2.module;[
<!ENTITY % ISOcyr2 PUBLIC
"ISO 8879:1986//ENTITIES Non-Russian Cyrillic//EN//XML"
"ent/iso-cyr2.ent">
```

```
<!--end of ISOcyr2.module-->]]>

<!ENTITY % ISOdia.module "INCLUDE">
<![%ISOdia.module;[
<!ENTITY % ISOdia PUBLIC
"ISO 8879:1986//ENTITIES Diacritical Marks//EN//XML"
"ent/iso-dia.ent">
<!--end of ISOdia.module-->]]>

<!ENTITY % ISOgrk1.module "INCLUDE">
<![%ISOgrk1.module;[
<!ENTITY % ISOgrk1 PUBLIC
"ISO 8879:1986//ENTITIES Greek Letters//EN//XML"
"ent/iso-grk1.ent">
<!--end of ISOgrk1.module-->]]>

<!ENTITY % ISOgrk2.module "INCLUDE">
<![%ISOgrk2.module;[
<!ENTITY % ISOgrk2 PUBLIC
"ISO 8879:1986//ENTITIES Monotoniko Greek//EN//XML"
"ent/iso-grk2.ent">
<!--end
 of ISOgrk2.module-->]]>

<!ENTITY % ISOgrk3.module "INCLUDE">
<![%ISOgrk3.module;[
<!ENTITY % ISOgrk3 PUBLIC
"ISO 8879:1986//ENTITIES Greek Symbols//EN//XML"
"ent/iso-grk3.ent">
<!--end of ISOgrk3.module-->]]>

<!ENTITY % ISOgrk4.module "INCLUDE">
<![%ISOgrk4.module;[
<!ENTITY % ISOgrk4 PUBLIC
"ISO 8879:1986//ENTITIES Alternative Greek Symbols//EN//XML"
"ent/iso-grk4.ent">
<!--end of ISOgrk4.module-->]]>

<!ENTITY % ISOlat1.module "INCLUDE">
<![%ISOlat1.module;[
<!ENTITY % ISOlat1 PUBLIC
"ISO 8879:1986//ENTITIES Added Latin 1//EN//XML"
"ent/iso-lat1.ent">
<!--end of ISOlat1.module-->]]>

<!ENTITY % ISOlat2.module "INCLUDE">
<![%ISOlat2.module;[
<!ENTITY % ISOlat2 PUBLIC
```

"ISO 8879:1986//ENTITIES Added Latin 2//EN//XML"
"ent/iso-lat2.ent">
<!--end of ISOlat2.module-->]]>

<!ENTITY % ISOnum.module "INCLUDE">
<![%ISOnum.module;[
<!ENTITY % ISOnum PUBLIC
"ISO 8879:1986//ENTITIES Numeric and Special Graphic//EN//XML"
"ent/iso-num.ent">
<!--end of ISOnum.module-->]]>

<!ENTITY % ISOpub.module
 "INCLUDE">
<![%ISOpub.module;[
<!ENTITY % ISOpub PUBLIC
"ISO 8879:1986//ENTITIES Publishing//EN//XML"
"ent/iso-pub.ent">
<!--end of ISOpub.module-->]]>

<!ENTITY % ISOtech.module "INCLUDE">
<![%ISOtech.module;[
<!ENTITY % ISOtech PUBLIC
"ISO 8879:1986//ENTITIES General Technical//EN//XML"
"ent/iso-tech.ent">
<!--end of ISOtech.module-->]]>

<!--end of xml.features-->]]>

<![%ISOamsa.module; [
%ISOamsa;
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<![%ISOamsb.module; [
%ISOamsb;
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<![%ISOamsc.module; [
%ISOamsc;
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%ISObox;
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<![%ISOcyr1.module; [
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<![%ISOcyr2.module; [
%ISOcyr2;
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<![%ISOdia.module; [
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%ISOgrk2;
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<![%ISOgrk3.module; [
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<![%ISOgrk4.module; [
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<![%ISOlat2.module; [
%ISOlat2;
]]>

<![%ISOnum.module; [
%ISOnum;
]]>

```
<![
 %ISOpub.module; [
%ISOpub;
]]>

<![ %ISOtech.module; [
%ISOtech;
]]>

<!-- End of DocBook character entity sets module V4.3 ..... -->
<!-- ..... -->
```

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DOD//DTD Table Model 951010//EN"

$Id: calstblx.dtd,v 1.20 2004/03/31 10:44:12 nwalsh Exp $

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<!-- ..... -->
<!-- DocBook XML document hierarchy module V4.1.2 ..... -->
<!-- File dbhierx.mod ..... -->

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Please direct all questions, bug reports, or suggestions for

```
   changes to the docbook@lists.oasis-open.org mailing list. For more
   information, see http://www.oasis-open.org/docbook/.
-->

<!-- ..................................................................... -->

<!-- This module contains the definitions for the overall document
   hierarchies of DocBook documents.  It covers computer documentation
   manuals and manual fragments, as well as reference entries (such as
   man pages) and technical journals or anthologies containing
   articles.

   This module depends on the DocBook information pool module.  All
   elements and
 entities referenced but not defined here are assumed
   to be defined in the information pool module.

   In DTD driver files referring to this module, please use an entity
   declaration that uses the public identifier shown below:

   <!ENTITY % dbhier PUBLIC
   "-//OASIS//ELEMENTS DocBook XML Document Hierarchy V4.1.2//EN"
   "dbhierx.mod">
   %dbhier;

   See the documentation for detailed information on the parameter
   entity and module scheme used in DocBook, customizing DocBook and
   planning for interchange, and changes made since the last release
   of DocBook.
-->

<!-- ..................................................................... -->
<!-- Entities for module inclusions ..................................... -->

<!ENTITY % dbhier.redecl.module  "IGNORE">
<!ENTITY % dbhier.redecl2.module "IGNORE">

<!-- ..................................................................... -->
<!-- Entities for element classes .....................................
 -->

<!ENTITY % local.appendix.class "">
<!ENTITY % appendix.class "appendix %local.appendix.class;">

<!ENTITY % local.article.class "">
<!ENTITY % article.class "article %local.article.class;">

<!ENTITY % local.book.class "">
```

```
<!ENTITY % book.class  "book %local.book.class;">

<!ENTITY % local.chapter.class "">
<!ENTITY % chapter.class "chapter %local.chapter.class;">

<!ENTITY % local.index.class "">
<!ENTITY % index.class  "index|setindex %local.index.class;">

<!ENTITY % local.refentry.class "">
<!ENTITY % refentry.class "refentry %local.refentry.class;">

<!ENTITY % local.nav.class "">
<!ENTITY % nav.class  "toc|lot|index|glossary|bibliography
   %local.nav.class;">

<!-- Redeclaration placeholder ..... -->

<!-- For redeclaring entities that are declared after this point while
   retaining their references to the entities that are declared before
   this point -->

<![%dbhier.redecl.module;[
<!-- Defining rdbhier here makes
 some buggy XML parsers happy. -->
<!ENTITY % rdbhier "">
%rdbhier;
<!--end of dbhier.redecl.module-->]]>

<!-- ..... -->
<!-- Entities for element mixtures ..... -->

<!-- The DocBook TC may produce an official forms module for DocBook. -->
<!-- This PE provides the hook by which it can be inserted into the DTD. -->
<!ENTITY % forms.hook "">

<!ENTITY % local.divcomponent.mix "">
<!ENTITY % divcomponent.mix
  "%list.class;  |%admon.class;
  |%linespecific.class; |%synop.class;
  |%para.class;  |%informal.class;
  |%formal.class;  |%compound.class;
  |%genobj.class;  |%descobj.class;
  |%ndxterm.class;       |beginpage
            %forms.hook;
  %local.divcomponent.mix;">

<!ENTITY % local.refcomponent.mix "">
<!ENTITY % refcomponent.mix
```

```
  "%list.class;  |%admon.class;
  |%linespecific.class; |%synop.class;
  |%para.class;  |%informal.class;
  |%formal.class;  |%compound.class;
  |%genobj.class;  |%descobj.class;
  |%ndxterm.class;
       |beginpage
  %local.refcomponent.mix;">

<!ENTITY % local.indexdivcomponent.mix "">
<!ENTITY % indexdivcomponent.mix
  "itemizedlist|orderedlist|variablelist|simplelist
  |%linespecific.class; |%synop.class;
  |%para.class;  |%informal.class;
  |anchor|remark
  |%link.char.class;
                    |beginpage
  %local.indexdivcomponent.mix;">

<!ENTITY % local.refname.char.mix "">
<!ENTITY % refname.char.mix
  "#PCDATA
  |%tech.char.class;
  %local.refname.char.mix;">

<!ENTITY % local.partcontent.mix "">
<!ENTITY % partcontent.mix
  "%appendix.class;|%chapter.class;|%nav.class;|%article.class;
  |preface|%refentry.class;|reference %local.partcontent.mix;">

<!ENTITY % local.refinline.char.mix "">
<!ENTITY % refinline.char.mix
  "#PCDATA
  |%xref.char.class; |%gen.char.class;
  |%link.char.class; |%tech.char.class;
  |%base.char.class; |%docinfo.char.class;
  |%other.char.class;
  |%ndxterm.class;       |beginpage
  %local.refinline.char.mix;">

<!ENTITY
 % local.refclass.char.mix "">
<!ENTITY % refclass.char.mix
  "#PCDATA
  |application
  %local.refclass.char.mix;">

<!-- Redeclaration placeholder 2 ..... -->
```

```
<!-- For redeclaring entities that are declared after this point while
   retaining their references to the entities that are declared before
   this point -->

<![%dbhier.redecl2.module;[
<!-- Defining rdbhier2 here makes some buggy XML parsers happy. -->
<!ENTITY % rdbhier2 "">
%rdbhier2;
<!--end of dbhier.redecl2.module-->]]>

<!-- ..... -->
<!-- Entities for content models ..... -->

<!ENTITY % div.title.content
 "title, subtitle?, titleabbrev?">

<!ENTITY % bookcomponent.title.content
 "title, subtitle?, titleabbrev?">

<!ENTITY % sect.title.content
 "title, subtitle?, titleabbrev?">

<!ENTITY % refsect.title.content
 "title, subtitle?, titleabbrev?">

<!ENTITY
 % bookcomponent.content
 "((%divcomponent.mix;)+,
 (sect1*|(%refentry.class;)*|simplesect*|section*))
 | (sect1+|(%refentry.class;)+|simplesect+|section+)">

<!-- ..... -->
<!-- Set and SetInfo ..... -->

<!ENTITY % set.content.module "INCLUDE">
<![%set.content.module;[
<!ENTITY % set.module "INCLUDE">
<![%set.module;[
<!ENTITY % local.set.attrib "">
<!ENTITY % set.role.attrib "%role.attrib;">

<!ENTITY % set.element "INCLUDE">
<![%set.element;[
<!ELEMENT set ((%div.title.content;)?, setinfo?, toc?, (%book.class;)+,
  setindex?)>
<!--end of set.element-->]]>
```

```
<!-- FPI: SGML formal public identifier -->


<!ENTITY % set.attlist "INCLUDE">
<![%set.attlist;[
<!ATTLIST set
  fpi  CDATA  #IMPLIED
  %status.attrib;
  %common.attrib;
  %set.role.attrib;
  %local.set.attrib;
>
<!--end of set.attlist-->]]>
<!--end of set.module-->]]>

<!ENTITY % setinfo.module "INCLUDE">
<![%setinfo.module;[
<!ENTITY
 % local.setinfo.attrib "">
<!ENTITY % setinfo.role.attrib "%role.attrib;">

<!ENTITY % setinfo.element "INCLUDE">
<![%setinfo.element;[
<!ELEMENT setinfo ((graphic | mediaobject
      | legalnotice | modespec | subjectset
 | keywordset | itermset | %bibliocomponent.mix;)+)>
<!--end of setinfo.element-->]]>

<!-- Contents: IDs of the ToC, Books, and SetIndex that comprise
  the set, in the order of their appearance -->


<!ENTITY % setinfo.attlist "INCLUDE">
<![%setinfo.attlist;[
<!ATTLIST setinfo
  contents IDREFS  #IMPLIED
  %common.attrib;
  %setinfo.role.attrib;
  %local.setinfo.attrib;
>
<!--end of setinfo.attlist-->]]>
<!--end of setinfo.module-->]]>
<!--end of set.content.module-->]]>

<!-- ..................................................................... -->
<!-- Book and BookInfo ..................................................... -->

<!ENTITY % book.content.module "INCLUDE">
```

```
<![%book.content.module;[
<!ENTITY % book.module "INCLUDE">
<![%book.module;[

<!ENTITY
 % local.book.attrib "">
<!ENTITY % book.role.attrib "%role.attrib;">

<!ENTITY % book.element "INCLUDE">
<![%book.element;[
<!ELEMENT book ((%div.title.content;)?, bookinfo?,
  (dedication | toc | lot
  | glossary | bibliography | preface
  | %chapter.class; | reference | part
  | %article.class;
  | %appendix.class;
  | %index.class;
  | colophon)*)>
<!--end of book.element-->]]>

<!-- FPI: SGML formal public identifier -->


<!ENTITY % book.attlist "INCLUDE">
<![%book.attlist;[
<!ATTLIST book  fpi  CDATA  #IMPLIED
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %book.role.attrib;
  %local.book.attrib;
>
<!--end of book.attlist-->]]>
<!--end of book.module-->]]>

<!ENTITY % bookinfo.module "INCLUDE">
<![%bookinfo.module;[
<!ENTITY % local.bookinfo.attrib "">
<!ENTITY % bookinfo.role.attrib "%role.attrib;">

<!ENTITY % bookinfo.element "INCLUDE">
<![%bookinfo.element;[
<!ELEMENT bookinfo ((graphic | mediaobject
      | legalnotice | modespec
 | subjectset
 | keywordset | itermset | %bibliocomponent.mix;)+)>
<!--end of bookinfo.element-->]]>
```

```
<!-- Contents: IDs of the ToC, LoTs, Prefaces, Parts, Chapters,
  Appendixes, References, GLossary, Bibliography, and indexes
  comprising the Book, in the order of their appearance -->


<!ENTITY % bookinfo.attlist "INCLUDE">
<![%bookinfo.attlist;[
<!ATTLIST bookinfo
  contents IDREFS  #IMPLIED
  %common.attrib;
  %bookinfo.role.attrib;
  %local.bookinfo.attrib;
>
<!--end of bookinfo.attlist-->]]>
<!--end of bookinfo.module-->]]>
<!--end of book.content.module-->]]>

<!-- ..................................................................... -->
<!-- Dedication, ToC, and LoT ..................................... -->

<!ENTITY % dedication.module "INCLUDE">
<![%dedication.module;[
<!ENTITY % local.dedication.attrib "">
<!ENTITY % dedication.role.attrib "%role.attrib;">

<!ENTITY % dedication.element "INCLUDE">
<![%dedication.element;[
<!ELEMENT dedication ((%sect.title.content;)?,
 (%legalnotice.mix;)+)>
<!--end of dedication.element-->]]>

<!ENTITY % dedication.attlist "INCLUDE">
<![%dedication.attlist;[
<!ATTLIST dedication
  %status.attrib;
  %common.attrib;
  %dedication.role.attrib;
  %local.dedication.attrib;
>
<!--end of dedication.attlist-->]]>
<!--end of dedication.module-->]]>

<!ENTITY % colophon.module "INCLUDE">
<![ %colophon.module; [
<!ENTITY % local.colophon.attrib "">
<!ENTITY % colophon.role.attrib "%role.attrib;">

<!ENTITY % colophon.element "INCLUDE">
```

```
<![ %colophon.element; [
<!ELEMENT colophon ((%sect.title.content;)?, (%textobject.mix;)+)>
<!--end of colophon.element-->]]>

<!ENTITY % colophon.attlist "INCLUDE">
<![ %colophon.attlist; [
<!ATTLIST colophon
  %status.attrib;
  %common.attrib;
  %colophon.role.attrib;
  %local.colophon.attrib;>
<!--end of colophon.attlist-->]]>
<!--end of colophon.module-->]]>

<!ENTITY % toc.content.module "INCLUDE">
<![%toc.content.module;[
<!ENTITY % toc.module "INCLUDE">
<![%toc.module;[
<!ENTITY % local.toc.attrib
 "">
<!ENTITY % toc.role.attrib "%role.attrib;">

<!ENTITY % toc.element "INCLUDE">
<![%toc.element;[
<!ELEMENT toc ((%bookcomponent.title.content;)?, tocfront*,
  (tocpart | tocchap)*, tocback*)>
<!--end of toc.element-->]]>

<!ENTITY % toc.attlist "INCLUDE">
<![%toc.attlist;[
<!ATTLIST toc
  %pagenum.attrib;
  %common.attrib;
  %toc.role.attrib;
  %local.toc.attrib;
>
<!--end of toc.attlist-->]]>
<!--end of toc.module-->]]>

<!ENTITY % tocfront.module "INCLUDE">
<![%tocfront.module;[
<!ENTITY % local.tocfront.attrib "">
<!ENTITY % tocfront.role.attrib "%role.attrib;">

<!ENTITY % tocfront.element "INCLUDE">
<![%tocfront.element;[
<!ELEMENT tocfront (%para.char.mix;)*>
<!--end of tocfront.element-->]]>
```

```
<!-- to element that this entry represents -->


<!ENTITY % tocfront.attlist "INCLUDE">
<![%tocfront.attlist;[
<!ATTLIST tocfront
  %label.attrib;
  %linkend.attrib;  %pagenum.attrib;
  %common.attrib;
  %tocfront.role.attrib;
  %local.tocfront.attrib;
>
<!--end of tocfront.attlist-->]]>
<!--end
 of tocfront.module-->]]>

<!ENTITY % tocentry.module "INCLUDE">
<![%tocentry.module;[
<!ENTITY % local.tocentry.attrib "">
<!ENTITY % tocentry.role.attrib "%role.attrib;">

<!ENTITY % tocentry.element "INCLUDE">
<![%tocentry.element;[
<!ELEMENT tocentry (%para.char.mix;)*>
<!--end of tocentry.element-->]]>

<!-- to element that this entry represents -->


<!ENTITY % tocentry.attlist "INCLUDE">
<![%tocentry.attlist;[
<!ATTLIST tocentry
  %linkend.attrib;  %pagenum.attrib;
  %common.attrib;
  %tocentry.role.attrib;
  %local.tocentry.attrib;
>
<!--end of tocentry.attlist-->]]>
<!--end of tocentry.module-->]]>

<!ENTITY % tocpart.module "INCLUDE">
<![%tocpart.module;[
<!ENTITY % local.tocpart.attrib "">
<!ENTITY % tocpart.role.attrib "%role.attrib;">

<!ENTITY % tocpart.element "INCLUDE">
<![%tocpart.element;[
```

```
<!ELEMENT tocpart (tocentry+, tocchap*)>
<!--end of tocpart.element-->]]>

<!ENTITY % tocpart.attlist "INCLUDE">
<![%tocpart.attlist;[
<!ATTLIST tocpart
  %common.attrib;
  %tocpart.role.attrib;
  %local.tocpart.attrib;
>
<!--end
 of tocpart.attlist-->]]>
<!--end of tocpart.module-->]]>

<!ENTITY % tocchap.module "INCLUDE">
<![%tocchap.module;[
<!ENTITY % local.tocchap.attrib "">
<!ENTITY % tocchap.role.attrib "%role.attrib;">

<!ENTITY % tocchap.element "INCLUDE">
<![%tocchap.element;[
<!ELEMENT tocchap (tocentry+, toclevel1*)>
<!--end of tocchap.element-->]]>

<!ENTITY % tocchap.attlist "INCLUDE">
<![%tocchap.attlist;[
<!ATTLIST tocchap
  %label.attrib;
  %common.attrib;
  %tocchap.role.attrib;
  %local.tocchap.attrib;
>
<!--end of tocchap.attlist-->]]>
<!--end of tocchap.module-->]]>

<!ENTITY % toclevel1.module "INCLUDE">
<![%toclevel1.module;[
<!ENTITY % local.toclevel1.attrib "">
<!ENTITY % toclevel1.role.attrib "%role.attrib;">

<!ENTITY % toclevel1.element "INCLUDE">
<![%toclevel1.element;[
<!ELEMENT toclevel1 (tocentry+, toclevel2*)>
<!--end of toclevel1.element-->]]>

<!ENTITY % toclevel1.attlist "INCLUDE">
<![%toclevel1.attlist;[
<!ATTLIST
```

```
 toclevel1
  %common.attrib;
  %toclevel1.role.attrib;
  %local.toclevel1.attrib;
>
<!--end of toclevel1.attlist-->]]>
<!--end of toclevel1.module-->]]>

<!ENTITY % toclevel2.module "INCLUDE">
<![%toclevel2.module;[
<!ENTITY % local.toclevel2.attrib "">
<!ENTITY % toclevel2.role.attrib "%role.attrib;">

<!ENTITY % toclevel2.element "INCLUDE">
<![%toclevel2.element;[
<!ELEMENT toclevel2 (tocentry+, toclevel3*)>
<!--end of toclevel2.element-->]]>

<!ENTITY % toclevel2.attlist "INCLUDE">
<![%toclevel2.attlist;[
<!ATTLIST toclevel2
  %common.attrib;
  %toclevel2.role.attrib;
  %local.toclevel2.attrib;
>
<!--end of toclevel2.attlist-->]]>
<!--end of toclevel2.module-->]]>

<!ENTITY % toclevel3.module "INCLUDE">
<![%toclevel3.module;[
<!ENTITY % local.toclevel3.attrib "">
<!ENTITY % toclevel3.role.attrib "%role.attrib;">

<!ENTITY % toclevel3.element "INCLUDE">
<![%toclevel3.element;[
<!ELEMENT toclevel3 (tocentry+, toclevel4*)>
<!--end of toclevel3.element-->]]>

<!ENTITY % toclevel3.attlist
 "INCLUDE">
<![%toclevel3.attlist;[
<!ATTLIST toclevel3
  %common.attrib;
  %toclevel3.role.attrib;
  %local.toclevel3.attrib;
>
<!--end of toclevel3.attlist-->]]>
<!--end of toclevel3.module-->]]>
```

```
<!ENTITY % toclevel4.module "INCLUDE">
<![%toclevel4.module;[
<!ENTITY % local.toclevel4.attrib "">
<!ENTITY % toclevel4.role.attrib "%role.attrib;">

<!ENTITY % toclevel4.element "INCLUDE">
<![%toclevel4.element;[
<!ELEMENT toclevel4 (tocentry+, toclevel5*)>
<!--end of toclevel4.element-->]]>

<!ENTITY % toclevel4.attlist "INCLUDE">
<![%toclevel4.attlist;[
<!ATTLIST toclevel4
  %common.attrib;
  %toclevel4.role.attrib;
  %local.toclevel4.attrib;
>
<!--end of toclevel4.attlist-->]]>
<!--end of toclevel4.module-->]]>

<!ENTITY % toclevel5.module "INCLUDE">
<![%toclevel5.module;[
<!ENTITY % local.toclevel5.attrib "">
<!ENTITY % toclevel5.role.attrib "%role.attrib;">

<!ENTITY % toclevel5.element "INCLUDE">
<![%toclevel5.element;[
<!ELEMENT toclevel5 (tocentry+)>
<!--end of toclevel5.element-->]]>

<!ENTITY
 % toclevel5.attlist "INCLUDE">
<![%toclevel5.attlist;[
<!ATTLIST toclevel5
  %common.attrib;
  %toclevel5.role.attrib;
  %local.toclevel5.attrib;
>
<!--end of toclevel5.attlist-->]]>
<!--end of toclevel5.module-->]]>

<!ENTITY % tocback.module "INCLUDE">
<![%tocback.module;[
<!ENTITY % local.tocback.attrib "">
<!ENTITY % tocback.role.attrib "%role.attrib;">

<!ENTITY % tocback.element "INCLUDE">
```

```
<![%tocback.element;[
<!ELEMENT tocback (%para.char.mix;)*>
<!--end of tocback.element-->]]>

<!-- to element that this entry represents -->


<!ENTITY % tocback.attlist "INCLUDE">
<![%tocback.attlist;[
<!ATTLIST tocback
  %label.attrib;
  %linkend.attrib;  %pagenum.attrib;
  %common.attrib;
  %tocback.role.attrib;
  %local.tocback.attrib;
>
<!--end of tocback.attlist-->]]>
<!--end of tocback.module-->]]>
<!--end of toc.content.module-->]]>

<!ENTITY % lot.content.module "INCLUDE">
<![%lot.content.module;[
<!ENTITY % lot.module "INCLUDE">
<![%lot.module;[
<!ENTITY % local.lot.attrib
 "">
<!ENTITY % lot.role.attrib "%role.attrib;">

<!ENTITY % lot.element "INCLUDE">
<![%lot.element;[
<!ELEMENT lot ((%bookcomponent.title.content;)?, lotentry*)>
<!--end of lot.element-->]]>

<!ENTITY % lot.attlist "INCLUDE">
<![%lot.attlist;[
<!ATTLIST lot
  %label.attrib;
  %common.attrib;
  %lot.role.attrib;
  %local.lot.attrib;
>
<!--end of lot.attlist-->]]>
<!--end of lot.module-->]]>

<!ENTITY % lotentry.module "INCLUDE">
<![%lotentry.module;[
<!ENTITY % local.lotentry.attrib "">
<!ENTITY % lotentry.role.attrib "%role.attrib;">
```

```
<!ENTITY % lotentry.element "INCLUDE">
<![%lotentry.element;[
<!ELEMENT lotentry (%para.char.mix;)*>
<!--end of lotentry.element-->]]>

<!-- SrcCredit: Information about the source of the entry,
  as for a list of illustrations -->
<!-- linkend: to element that this entry represents-->
<!ENTITY % lotentry.attlist "INCLUDE">
<![%lotentry.attlist;[
<!ATTLIST lotentry
  srccredit CDATA  #IMPLIED
  %pagenum.attrib;
  %common.attrib;
  %linkend.attrib;
  %lotentry.role.attrib;
  %local.lotentry.attrib;
>
<!--end
 of lotentry.attlist-->]]>
<!--end of lotentry.module-->]]>
<!--end of lot.content.module-->]]>

<!-- ..................................................................... -->
<!-- Appendix, Chapter, Part, Preface, Reference, PartIntro ..... -->

<!ENTITY % appendix.module "INCLUDE">
<![%appendix.module;[
<!ENTITY % local.appendix.attrib "">
<!ENTITY % appendix.role.attrib "%role.attrib;">

<!ENTITY % appendix.element "INCLUDE">
<![%appendix.element;[
<!ELEMENT appendix (appendixinfo?,
                    (%bookcomponent.title.content;),
                    (%nav.class;)*,
                    tocchap?,
                    (%bookcomponent.content;),
                    (%nav.class;)*)>
<!--end of appendix.element-->]]>

<!ENTITY % appendix.attlist "INCLUDE">
<![%appendix.attlist;[
<!ATTLIST appendix
  %label.attrib;
  %status.attrib;
  %common.attrib;
```

```
 %appendix.role.attrib;
 %local.appendix.attrib;
>
<!--end
 of appendix.attlist-->]]>
<!--end of appendix.module-->]]>

<!ENTITY % chapter.module "INCLUDE">
<![%chapter.module;[
<!ENTITY % local.chapter.attrib "">
<!ENTITY % chapter.role.attrib "%role.attrib;">

<!ENTITY % chapter.element "INCLUDE">
<![%chapter.element;[
<!ELEMENT chapter (chapterinfo?,
                   (%bookcomponent.title.content;),
                   (%nav.class;)*,
                   tocchap?,
                   (%bookcomponent.content;),
                   (%nav.class;)*)>
<!--end of chapter.element-->]]>

<!ENTITY % chapter.attlist "INCLUDE">
<![%chapter.attlist;[
<!ATTLIST chapter
 %label.attrib;
 %status.attrib;
 %common.attrib;
 %chapter.role.attrib;
 %local.chapter.attrib;
>
<!--end of chapter.attlist-->]]>
<!--end of chapter.module-->]]>

<!ENTITY % part.module "INCLUDE">
<![%part.module;[

<!-- Note that Part was to have its content model reduced in V4.1.2.  This
change will not be made after all. -->

<!ENTITY % local.part.attrib "">
<!ENTITY
 % part.role.attrib "%role.attrib;">

<!ENTITY % part.element "INCLUDE">
<![%part.element;[
<!ELEMENT part (partinfo?, (%bookcomponent.title.content;), partintro?,
 (%partcontent.mix;)+)>
```

```
<!--end of part.element-->]]>

<!ENTITY % part.attlist "INCLUDE">
<![%part.attlist;[
<!ATTLIST part
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %part.role.attrib;
  %local.part.attrib;
>
<!--end of part.attlist-->]]>
<!--ELEMENT PartIntro (defined below)-->
<!--end of part.module-->]]>

<!ENTITY % preface.module "INCLUDE">
<![%preface.module;[
<!ENTITY % local.preface.attrib "">
<!ENTITY % preface.role.attrib "%role.attrib;">

<!ENTITY % preface.element "INCLUDE">
<![%preface.element;[
<!ELEMENT preface (prefaceinfo?,
                   (%bookcomponent.title.content;),
                   (%nav.class;)*,
                   tocchap?,
                   (%bookcomponent.content;),
                   (%nav.class;)*)>
<!--end of preface.element-->]]>

<!ENTITY % preface.attlist "INCLUDE">
<![%preface.attlist;[
<!ATTLIST
 preface
  %status.attrib;
  %common.attrib;
  %preface.role.attrib;
  %local.preface.attrib;
>
<!--end of preface.attlist-->]]>
<!--end of preface.module-->]]>

<!ENTITY % reference.module "INCLUDE">
<![%reference.module;[
<!ENTITY % local.reference.attrib "">
<!ENTITY % reference.role.attrib "%role.attrib;">

<!ENTITY % reference.element "INCLUDE">
```

```
<![%reference.element;[
<!ELEMENT reference (referenceinfo?,
                (%bookcomponent.title.content;), partintro?,
                (%refentry.class;)+)>
<!--end of reference.element-->]]>

<!ENTITY % reference.attlist "INCLUDE">
<![%reference.attlist;[
<!ATTLIST reference
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %reference.role.attrib;
  %local.reference.attrib;
>
<!--end of reference.attlist-->]]>
<!--ELEMENT PartIntro (defined below)-->
<!--end of reference.module-->]]>

<!ENTITY % partintro.module "INCLUDE">
<![%partintro.module;[
<!ENTITY % local.partintro.attrib "">
<!ENTITY
 % partintro.role.attrib "%role.attrib;">

<!ENTITY % partintro.element "INCLUDE">
<![%partintro.element;[
<!ELEMENT partintro ((%div.title.content;)?, (%bookcomponent.content;))>
<!--end of partintro.element-->]]>

<!ENTITY % partintro.attlist "INCLUDE">
<![%partintro.attlist;[
<!ATTLIST partintro
  %label.attrib;
  %common.attrib;
  %local.partintro.attrib;
  %partintro.role.attrib;
>
<!--end of partintro.attlist-->]]>
<!--end of partintro.module-->]]>

<!-- ..... -->
<!-- Other Info elements ..... -->

<!ENTITY % appendixinfo.module "INCLUDE">
<![ %appendixinfo.module; [
<!ENTITY % local.appendixinfo.attrib "">
<!ENTITY % appendixinfo.role.attrib "%role.attrib;">
```

```
<!ENTITY % appendixinfo.element "INCLUDE">
<![ %appendixinfo.element; [
<!ELEMENT appendixinfo ((graphic | mediaobject
  | legalnotice | modespec
  | subjectset | keywordset | itermset
              | %bibliocomponent.mix;)+)>
<!--end
 of appendixinfo.element-->]]>

<!ENTITY % appendixinfo.attlist "INCLUDE">
<![ %appendixinfo.attlist; [
<!ATTLIST appendixinfo
  %common.attrib;
  %appendixinfo.role.attrib;
  %local.appendixinfo.attrib;
>
<!--end of appendixinfo.attlist-->]]>
<!--end of appendixinfo.module-->]]>

<!ENTITY % bibliographyinfo.module "INCLUDE">
<![ %bibliographyinfo.module; [
<!ENTITY % local.bibliographyinfo.attrib "">
<!ENTITY % bibliographyinfo.role.attrib "%role.attrib;">

<!ENTITY % bibliographyinfo.element "INCLUDE">
<![ %bibliographyinfo.element; [
<!ELEMENT bibliographyinfo ((graphic | mediaobject
  | legalnotice | modespec
  | subjectset | keywordset | itermset
              | %bibliocomponent.mix;)+)>
<!--end of bibliographyinfo.element-->]]>

<!ENTITY % bibliographyinfo.attlist "INCLUDE">
<![ %bibliographyinfo.attlist; [
<!ATTLIST bibliographyinfo
  %common.attrib;
  %bibliographyinfo.role.attrib;
  %local.bibliographyinfo.attrib;
>
<!--end of bibliographyinfo.attlist-->]]>
<!--end
 of bibliographyinfo.module-->]]>

<!ENTITY % chapterinfo.module "INCLUDE">
<![ %chapterinfo.module; [
<!ENTITY % local.chapterinfo.attrib "">
<!ENTITY % chapterinfo.role.attrib "%role.attrib;">
```

```
<!ENTITY % chapterinfo.element "INCLUDE">
<![ %chapterinfo.element; [
<!ELEMENT chapterinfo ((graphic | mediaobject
  | legalnotice | modespec
  | subjectset | keywordset | itermset
            | %bibliocomponent.mix;)+)>
<!--end of chapterinfo.element-->]]>

<!ENTITY % chapterinfo.attlist "INCLUDE">
<![ %chapterinfo.attlist; [
<!ATTLIST chapterinfo
  %common.attrib;
  %chapterinfo.role.attrib;
  %local.chapterinfo.attrib;
>
<!--end of chapterinfo.attlist-->]]>
<!--end of chapterinfo.module-->]]>

<!ENTITY % glossaryinfo.module "INCLUDE">
<![ %glossaryinfo.module; [
<!ENTITY % local.glossaryinfo.attrib "">
<!ENTITY % glossaryinfo.role.attrib "%role.attrib;">

<!ENTITY % glossaryinfo.element "INCLUDE">
<![ %glossaryinfo.element; [
<!ELEMENT glossaryinfo ((graphic | mediaobject

  | legalnotice | modespec
  | subjectset | keywordset | itermset
            | %bibliocomponent.mix;)+)>
<!--end of glossaryinfo.element-->]]>

<!ENTITY % glossaryinfo.attlist "INCLUDE">
<![ %glossaryinfo.attlist; [
<!ATTLIST glossaryinfo
  %common.attrib;
  %glossaryinfo.role.attrib;
  %local.glossaryinfo.attrib;
>
<!--end of glossaryinfo.attlist-->]]>
<!--end of glossaryinfo.module-->]]>

<!ENTITY % indexinfo.module "INCLUDE">
<![ %indexinfo.module; [
<!ENTITY % local.indexinfo.attrib "">
<!ENTITY % indexinfo.role.attrib "%role.attrib;">
```

```
<!ENTITY % indexinfo.element "INCLUDE">
<![ %indexinfo.element; [
<!ELEMENT indexinfo ((graphic | mediaobject
  | legalnotice | modespec
  | subjectset | keywordset | itermset
            | %bibliocomponent.mix;)+)>
<!--end of indexinfo.element-->]]>

<!ENTITY % indexinfo.attlist "INCLUDE">
<![ %indexinfo.attlist; [
<!ATTLIST indexinfo
  %common.attrib;
  %indexinfo.role.attrib;
  %local.indexinfo.attrib;
>
<!--end of indexinfo.attlist-->]]>
<!--end
 of indexinfo.module-->]]>

<!ENTITY % setindexinfo.module "INCLUDE">
<![ %setindexinfo.module; [
<!ENTITY % local.setindexinfo.attrib "">
<!ENTITY % setindexinfo.role.attrib "%role.attrib;">

<!ENTITY % setindexinfo.element "INCLUDE">
<![ %setindexinfo.element; [
<!ELEMENT setindexinfo ((graphic | mediaobject
  | legalnotice | modespec
  | subjectset | keywordset | itermset
            | %bibliocomponent.mix;)+)>
<!--end of setindexinfo.element-->]]>

<!ENTITY % setindexinfo.attlist "INCLUDE">
<![ %setindexinfo.attlist; [
<!ATTLIST setindexinfo
  %common.attrib;
  %setindexinfo.role.attrib;
  %local.setindexinfo.attrib;
>
<!--end of setindexinfo.attlist-->]]>
<!--end of setindexinfo.module-->]]>

<!ENTITY % partinfo.module "INCLUDE">
<![ %partinfo.module; [
<!ENTITY % local.partinfo.attrib "">
<!ENTITY % partinfo.role.attrib "%role.attrib;">

<!ENTITY % partinfo.element "INCLUDE">
```

```
<![ %partinfo.element; [
<!ELEMENT partinfo ((graphic | mediaobject
  | legalnotice
 | modespec
  | subjectset | keywordset | itermset
            | %bibliocomponent.mix;)+)>
<!--end of partinfo.element-->]]>

<!ENTITY % partinfo.attlist "INCLUDE">
<![ %partinfo.attlist; [
<!ATTLIST partinfo
  %common.attrib;
  %partinfo.role.attrib;
  %local.partinfo.attrib;
>
<!--end of partinfo.attlist-->]]>
<!--end of partinfo.module-->]]>

<!ENTITY % prefaceinfo.module "INCLUDE">
<![ %prefaceinfo.module; [
<!ENTITY % local.prefaceinfo.attrib "">
<!ENTITY % prefaceinfo.role.attrib "%role.attrib;">

<!ENTITY % prefaceinfo.element "INCLUDE">
<![ %prefaceinfo.element; [
<!ELEMENT prefaceinfo ((graphic | mediaobject
  | legalnotice | modespec
  | subjectset | keywordset | itermset
            | %bibliocomponent.mix;)+)>
<!--end of prefaceinfo.element-->]]>

<!ENTITY % prefaceinfo.attlist "INCLUDE">
<![ %prefaceinfo.attlist; [
<!ATTLIST prefaceinfo
  %common.attrib;
  %prefaceinfo.role.attrib;
  %local.prefaceinfo.attrib;
>
<!--end of prefaceinfo.attlist-->]]>
<!--end of
 prefaceinfo.module-->]]>

<!ENTITY % refentryinfo.module "INCLUDE">
<![ %refentryinfo.module; [
<!ENTITY % local.refentryinfo.attrib "">
<!ENTITY % refentryinfo.role.attrib "%role.attrib;">

<!ENTITY % refentryinfo.element "INCLUDE">
```

```
<![ %refentryinfo.element; [
<!ELEMENT refentryinfo ((graphic | mediaobject
  | legalnotice | modespec
  | subjectset | keywordset | itermset
              | %bibliocomponent.mix;)+)>
<!--end of refentryinfo.element-->]]>

<!ENTITY % refentryinfo.attlist "INCLUDE">
<![ %refentryinfo.attlist; [
<!ATTLIST refentryinfo
  %common.attrib;
  %refentryinfo.role.attrib;
  %local.refentryinfo.attrib;
>
<!--end of refentryinfo.attlist-->]]>
<!--end of refentryinfo.module-->]]>

<!ENTITY % refsect1info.module "INCLUDE">
<![ %refsect1info.module; [
<!ENTITY % local.refsect1info.attrib "">
<!ENTITY % refsect1info.role.attrib "%role.attrib;">

<!ENTITY % refsect1info.element "INCLUDE">
<![ %refsect1info.element; [
<!ELEMENT refsect1info ((graphic | mediaobject
  |
 legalnotice | modespec
  | subjectset | keywordset | itermset
              | %bibliocomponent.mix;)+)>
<!--end of refsect1info.element-->]]>

<!ENTITY % refsect1info.attlist "INCLUDE">
<![ %refsect1info.attlist; [
<!ATTLIST refsect1info
  %common.attrib;
  %refsect1info.role.attrib;
  %local.refsect1info.attrib;
>
<!--end of refsect1info.attlist-->]]>
<!--end of refsect1info.module-->]]>

<!ENTITY % refsect2info.module "INCLUDE">
<![ %refsect2info.module; [
<!ENTITY % local.refsect2info.attrib "">
<!ENTITY % refsect2info.role.attrib "%role.attrib;">

<!ENTITY % refsect2info.element "INCLUDE">
<![ %refsect2info.element; [
```

```
<!ELEMENT refsect2info ((graphic | mediaobject
  | legalnotice | modespec
  | subjectset | keywordset | itermset
            | %bibliocomponent.mix;)+)>
<!--end of refsect2info.element-->]]>

<!ENTITY % refsect2info.attlist "INCLUDE">
<![ %refsect2info.attlist; [
<!ATTLIST refsect2info
  %common.attrib;
  %refsect2info.role.attrib;
  %local.refsect2info.attrib;
>
<!--end
 of refsect2info.attlist-->]]>
<!--end of refsect2info.module-->]]>

<!ENTITY % refsect3info.module "INCLUDE">
<![ %refsect3info.module; [
<!ENTITY % local.refsect3info.attrib "">
<!ENTITY % refsect3info.role.attrib "%role.attrib;">

<!ENTITY % refsect3info.element "INCLUDE">
<![ %refsect3info.element; [
<!ELEMENT refsect3info ((graphic | mediaobject
  | legalnotice | modespec
  | subjectset | keywordset | itermset
            | %bibliocomponent.mix;)+)>
<!--end of refsect3info.element-->]]>

<!ENTITY % refsect3info.attlist "INCLUDE">
<![ %refsect3info.attlist; [
<!ATTLIST refsect3info
  %common.attrib;
  %refsect3info.role.attrib;
  %local.refsect3info.attrib;
>
<!--end of refsect3info.attlist-->]]>
<!--end of refsect3info.module-->]]>

<!ENTITY % refsynopsisdivinfo.module "INCLUDE">
<![ %refsynopsisdivinfo.module; [
<!ENTITY % local.refsynopsisdivinfo.attrib "">
<!ENTITY % refsynopsisdivinfo.role.attrib "%role.attrib;">

<!ENTITY % refsynopsisdivinfo.element "INCLUDE">
<![
```

```
 %refsynopsisdivinfo.element; [
<!ELEMENT refsynopsisdivinfo ((graphic | mediaobject
  | legalnotice | modespec
  | subjectset | keywordset | itermset
            | %bibliocomponent.mix;)+)>
<!--end of refsynopsisdivinfo.element-->]]>

<!ENTITY % refsynopsisdivinfo.attlist "INCLUDE">
<![ %refsynopsisdivinfo.attlist; [
<!ATTLIST refsynopsisdivinfo
  %common.attrib;
  %refsynopsisdivinfo.role.attrib;
  %local.refsynopsisdivinfo.attrib;
>
<!--end of refsynopsisdivinfo.attlist-->]]>
<!--end of refsynopsisdivinfo.module-->]]>

<!ENTITY % referenceinfo.module "INCLUDE">
<![ %referenceinfo.module; [
<!ENTITY % local.referenceinfo.attrib "">
<!ENTITY % referenceinfo.role.attrib "%role.attrib;">

<!ENTITY % referenceinfo.element "INCLUDE">
<![ %referenceinfo.element; [
<!ELEMENT referenceinfo ((graphic | mediaobject
  | legalnotice | modespec
  | subjectset | keywordset | itermset
            | %bibliocomponent.mix;)+)>
<!--end of referenceinfo.element-->]]>

<!ENTITY % referenceinfo.attlist
 "INCLUDE">
<![ %referenceinfo.attlist; [
<!ATTLIST referenceinfo
  %common.attrib;
  %referenceinfo.role.attrib;
  %local.referenceinfo.attrib;
>
<!--end of referenceinfo.attlist-->]]>
<!--end of referenceinfo.module-->]]>

<!ENTITY % local.sect1info.attrib "">
<!ENTITY % sect1info.role.attrib "%role.attrib;">

<!ENTITY % sect1info.element "INCLUDE">
<![%sect1info.element;[
<!ELEMENT sect1info ((graphic | mediaobject | legalnotice | modespec
 | subjectset | keywordset | itermset | %bibliocomponent.mix;)+)>
```

```
<!--end of sect1info.element-->]]>

<!ENTITY % sect1info.attlist "INCLUDE">
<![%sect1info.attlist;[
<!ATTLIST sect1info
  %common.attrib;
  %sect1info.role.attrib;
  %local.sect1info.attrib;
>
<!--end of sect1info.attlist-->]]>

<!ENTITY % local.sect2info.attrib "">
<!ENTITY % sect2info.role.attrib "%role.attrib;">

<!ENTITY % sect2info.element "INCLUDE">
<![%sect2info.element;[
<!ELEMENT sect2info ((graphic | mediaobject | legalnotice | modespec
 | subjectset | keywordset
 | itermset | %bibliocomponent.mix;)+)>
<!--end of sect2info.element-->]]>

<!ENTITY % sect2info.attlist "INCLUDE">
<![%sect2info.attlist;[
<!ATTLIST sect2info
  %common.attrib;
  %sect2info.role.attrib;
  %local.sect2info.attrib;
>
<!--end of sect2info.attlist-->]]>

<!ENTITY % local.sect3info.attrib "">
<!ENTITY % sect3info.role.attrib "%role.attrib;">

<!ENTITY % sect3info.element "INCLUDE">
<![%sect3info.element;[
<!ELEMENT sect3info ((graphic | mediaobject | legalnotice | modespec
 | subjectset | keywordset | itermset | %bibliocomponent.mix;)+)>
<!--end of sect3info.element-->]]>

<!ENTITY % sect3info.attlist "INCLUDE">
<![%sect3info.attlist;[
<!ATTLIST sect3info
  %common.attrib;
  %sect3info.role.attrib;
  %local.sect3info.attrib;
>
<!--end of sect3info.attlist-->]]>
```

```
<!ENTITY % local.sect4info.attrib "">
<!ENTITY % sect4info.role.attrib "%role.attrib;">

<!ENTITY % sect4info.element "INCLUDE">
<![%sect4info.element;[
<!ELEMENT sect4info ((graphic | mediaobject | legalnotice
 | modespec
 | subjectset | keywordset | itermset | %bibliocomponent.mix;)+)>
<!--end of sect4info.element-->]]>

<!ENTITY % sect4info.attlist "INCLUDE">
<![%sect4info.attlist;[
<!ATTLIST sect4info
  %common.attrib;
  %sect4info.role.attrib;
  %local.sect4info.attrib;
>
<!--end of sect4info.attlist-->]]>

<!ENTITY % local.sect5info.attrib "">
<!ENTITY % sect5info.role.attrib "%role.attrib;">

<!ENTITY % sect5info.element "INCLUDE">
<![%sect5info.element;[
<!ELEMENT sect5info ((graphic | mediaobject | legalnotice | modespec
 | subjectset | keywordset | itermset | %bibliocomponent.mix;)+)>
<!--end of sect5info.element-->]]>

<!ENTITY % sect5info.attlist "INCLUDE">
<![%sect5info.attlist;[
<!ATTLIST sect5info
  %common.attrib;
  %sect5info.role.attrib;
  %local.sect5info.attrib;
>
<!--end of sect5info.attlist-->]]>

<!-- ..................................................................... -->
<!-- Section (parallel to Sect*) ........................................ -->

<!ENTITY
 % section.content.module "INCLUDE">
<![ %section.content.module; [
<!ENTITY % section.module "INCLUDE">
<![ %section.module; [
<!ENTITY % local.section.attrib "">
<!ENTITY % section.role.attrib "%role.attrib;">
```

```
<!ENTITY % section.element "INCLUDE">
<![ %section.element; [
<!ELEMENT section (sectioninfo?,
  (%sect.title.content;),
  (%nav.class;)*,
  (((%divcomponent.mix;)+,
    ((%refentry.class;)*|section*))
   | (%refentry.class;)+|section+),
  (%nav.class;)*)>
<!--end of section.element-->]]>

<!ENTITY % section.attlist "INCLUDE">
<![ %section.attlist; [
<!ATTLIST section
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %section.role.attrib;
  %local.section.attrib;
>
<!--end of section.attlist-->]]>
<!--end of section.module-->]]>

<!ENTITY % sectioninfo.module "INCLUDE">
<![ %sectioninfo.module; [
<!ENTITY % sectioninfo.role.attrib "%role.attrib;">
<!ENTITY % local.sectioninfo.attrib "">

<!ENTITY % sectioninfo.element "INCLUDE">
<![ %sectioninfo.element; [
<!ELEMENT
 sectioninfo ((graphic | mediaobject | legalnotice | modespec
 | subjectset | keywordset | itermset | %bibliocomponent.mix;)+)>
<!--end of sectioninfo.element-->]]>

<!ENTITY % sectioninfo.attlist "INCLUDE">
<![ %sectioninfo.attlist; [
<!ATTLIST sectioninfo
  %common.attrib;
  %sectioninfo.role.attrib;
  %local.sectioninfo.attrib;
>
<!--end of sectioninfo.attlist-->]]>
<!--end of sectioninfo.module-->]]>
<!--end of section.content.module-->]]>

<!-- ..... -->
<!-- Sect1, Sect2, Sect3, Sect4, Sect5 ..... -->
```

```
<!ENTITY % sect1.module "INCLUDE">
<![%sect1.module;[
<!ENTITY % local.sect1.attrib "">
<!ENTITY % sect1.role.attrib "%role.attrib;">

<!ENTITY % sect1.element "INCLUDE">
<![%sect1.element;[
<!ELEMENT sect1 (sect1info?, (%sect.title.content;), (%nav.class;)*,
  (((%divcomponent.mix;)+,
  ((%refentry.class;)* | sect2* | simplesect*))
  | (%refentry.class;)+ | sect2+ | simplesect+), (%nav.class;)*)>
<!--end
 of sect1.element-->]]>

<!-- Renderas: Indicates the format in which the heading should
  appear -->


<!ENTITY % sect1.attlist "INCLUDE">
<![%sect1.attlist;[
<!ATTLIST sect1
  renderas (sect2
    |sect3
    |sect4
    |sect5)  #IMPLIED
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %sect1.role.attrib;
  %local.sect1.attrib;
>
<!--end of sect1.attlist-->]]>
<!--end of sect1.module-->]]>

<!ENTITY % sect2.module "INCLUDE">
<![%sect2.module;[
<!ENTITY % local.sect2.attrib "">
<!ENTITY % sect2.role.attrib "%role.attrib;">

<!ENTITY % sect2.element "INCLUDE">
<![%sect2.element;[
<!ELEMENT sect2 (sect2info?, (%sect.title.content;), (%nav.class;)*,
  (((%divcomponent.mix;)+,
  ((%refentry.class;)* | sect3* | simplesect*))
  | (%refentry.class;)+ | sect3+ | simplesect+), (%nav.class;)*)>
<!--end of sect2.element-->]]>
```

```
<!-- Renderas: Indicates the format in which the heading should
  appear -->


<!ENTITY % sect2.attlist "INCLUDE">
<![%sect2.attlist;[
<!ATTLIST sect2
  renderas (sect1
    |sect3
    |sect4
    |sect5)  #IMPLIED
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %sect2.role.attrib;
  %local.sect2.attrib;
>
<!--end
 of sect2.attlist-->]]>
<!--end of sect2.module-->]]>

<!ENTITY % sect3.module "INCLUDE">
<![%sect3.module;[
<!ENTITY % local.sect3.attrib "">
<!ENTITY % sect3.role.attrib "%role.attrib;">

<!ENTITY % sect3.element "INCLUDE">
<![%sect3.element;[
<!ELEMENT sect3 (sect3info?, (%sect.title.content;), (%nav.class;)*,
  (((%divcomponent.mix;)+,
  ((%refentry.class;)* | sect4* | simplesect*))
  | (%refentry.class;)+ | sect4+ | simplesect+), (%nav.class;)*)>
<!--end of sect3.element-->]]>

<!-- Renderas: Indicates the format in which the heading should
  appear -->


<!ENTITY % sect3.attlist "INCLUDE">
<![%sect3.attlist;[
<!ATTLIST sect3
  renderas (sect1
    |sect2
    |sect4
    |sect5)  #IMPLIED
  %label.attrib;
  %status.attrib;
  %common.attrib;
```

```
 %sect3.role.attrib;
 %local.sect3.attrib;
>
<!--end of sect3.attlist-->]]>
<!--end
 of sect3.module-->]]>

<!ENTITY % sect4.module "INCLUDE">
<![%sect4.module;[
<!ENTITY % local.sect4.attrib "">
<!ENTITY % sect4.role.attrib "%role.attrib;">

<!ENTITY % sect4.element "INCLUDE">
<![%sect4.element;[
<!ELEMENT sect4 (sect4info?, (%sect.title.content;), (%nav.class;)*,
 (((%divcomponent.mix;)+,
 ((%refentry.class;)* | sect5* | simplesect*))
 | (%refentry.class;)+ | sect5+ | simplesect+), (%nav.class;)*)>
<!--end of sect4.element-->]]>

<!-- Renderas: Indicates the format in which the heading should
 appear -->


<!ENTITY % sect4.attlist "INCLUDE">
<![%sect4.attlist;[
<!ATTLIST sect4
 renderas (sect1
   |sect2
   |sect3
   |sect5)  #IMPLIED
 %label.attrib;
 %status.attrib;
 %common.attrib;
 %sect4.role.attrib;
 %local.sect4.attrib;
>
<!--end of sect4.attlist-->]]>
<!--end of sect4.module-->]]>

<!ENTITY % sect5.module "INCLUDE">
<![%sect5.module;[
<!ENTITY % local.sect5.attrib "">
<!ENTITY % sect5.role.attrib "%role.attrib;">

<!ENTITY % sect5.element
 "INCLUDE">
<![%sect5.element;[
```

```
<!ELEMENT sect5 (sect5info?, (%sect.title.content;), (%nav.class;)*,
  (((%divcomponent.mix;)+, ((%refentry.class;)* | simplesect*))
  | (%refentry.class;)+ | simplesect+), (%nav.class;)*)>
<!--end of sect5.element-->]]>

<!-- Renderas: Indicates the format in which the heading should
  appear -->


<!ENTITY % sect5.attlist "INCLUDE">
<![%sect5.attlist;[
<!ATTLIST sect5
  renderas (sect1
    |sect2
    |sect3
    |sect4)  #IMPLIED
  %label.attrib;
  %status.attrib;
  %common.attrib;
  %sect5.role.attrib;
  %local.sect5.attrib;
>
<!--end of sect5.attlist-->]]>
<!--end of sect5.module-->]]>

<!ENTITY % simplesect.module "INCLUDE">
<![%simplesect.module;[
<!ENTITY % local.simplesect.attrib "">
<!ENTITY % simplesect.role.attrib "%role.attrib;">

<!ENTITY % simplesect.element "INCLUDE">
<![%simplesect.element;[
<!ELEMENT simplesect ((%sect.title.content;), (%divcomponent.mix;)+)>
<!--end of simplesect.element-->]]>

<!ENTITY % simplesect.attlist "INCLUDE">
<![%simplesect.attlist;[
<!ATTLIST
 simplesect
  %common.attrib;
  %simplesect.role.attrib;
  %local.simplesect.attrib;
>
<!--end of simplesect.attlist-->]]>
<!--end of simplesect.module-->]]>

<!-- ..... -->
<!-- Bibliography ..... -->
```

```
<!ENTITY % bibliography.content.module "INCLUDE">
<![%bibliography.content.module;[
<!ENTITY % bibliography.module "INCLUDE">
<![%bibliography.module;[
<!ENTITY % local.bibliography.attrib "">
<!ENTITY % bibliography.role.attrib "%role.attrib;">

<!ENTITY % bibliography.element "INCLUDE">
<![%bibliography.element;[
<!ELEMENT bibliography (bibliographyinfo?,
                        (%bookcomponent.title.content;)?,
                        (%component.mix;)*,
                        (bibliodiv+ | (biblioentry|bibliomixed)+))>
<!--end of bibliography.element-->]]>

<!ENTITY % bibliography.attlist "INCLUDE">
<![%bibliography.attlist;[
<!ATTLIST
 bibliography
  %status.attrib;
  %common.attrib;
  %bibliography.role.attrib;
  %local.bibliography.attrib;
>
<!--end of bibliography.attlist-->]]>
<!--end of bibliography.module-->]]>

<!ENTITY % bibliodiv.module "INCLUDE">
<![%bibliodiv.module;[
<!ENTITY % local.bibliodiv.attrib "">
<!ENTITY % bibliodiv.role.attrib "%role.attrib;">

<!ENTITY % bibliodiv.element "INCLUDE">
<![%bibliodiv.element;[
<!ELEMENT bibliodiv ((%sect.title.content;)?, (%component.mix;)*,
  (biblioentry|bibliomixed)+)>
<!--end of bibliodiv.element-->]]>

<!ENTITY % bibliodiv.attlist "INCLUDE">
<![%bibliodiv.attlist;[
<!ATTLIST bibliodiv
  %status.attrib;
  %common.attrib;
  %bibliodiv.role.attrib;
  %local.bibliodiv.attrib;
>
<!--end of bibliodiv.attlist-->]]>
```

```
<!--end of bibliodiv.module-->]]>
<!--end of bibliography.content.module-->]]>

<!-- ..... -->
<!-- Glossary ..... -->

<!ENTITY
 % glossary.content.module "INCLUDE">
<![%glossary.content.module;[
<!ENTITY % glossary.module "INCLUDE">
<![%glossary.module;[
<!ENTITY % local.glossary.attrib "">
<!ENTITY % glossary.role.attrib "%role.attrib;">

<!ENTITY % glossary.element "INCLUDE">
<![%glossary.element;[
<!ELEMENT glossary (glossaryinfo?,
                (%bookcomponent.title.content;)?,
                (%component.mix;)*,
                (glossdiv+ | glossentry+), bibliography?)>
<!--end of glossary.element-->]]>

<!ENTITY % glossary.attlist "INCLUDE">
<![%glossary.attlist;[
<!ATTLIST glossary
  %status.attrib;
  %common.attrib;
  %glossary.role.attrib;
  %local.glossary.attrib;
>
<!--end of glossary.attlist-->]]>
<!--end of glossary.module-->]]>

<!ENTITY % glossdiv.module "INCLUDE">
<![%glossdiv.module;[
<!ENTITY % local.glossdiv.attrib "">
<!ENTITY % glossdiv.role.attrib "%role.attrib;">

<!ENTITY % glossdiv.element "INCLUDE">
<![%glossdiv.element;[
<!ELEMENT glossdiv ((%sect.title.content;), (%component.mix;)*,
  glossentry+)>
<!--end
 of glossdiv.element-->]]>

<!ENTITY % glossdiv.attlist "INCLUDE">
<![%glossdiv.attlist;[
<!ATTLIST glossdiv
```

```
 %status.attrib;
 %common.attrib;
 %glossdiv.role.attrib;
 %local.glossdiv.attrib;
>
<!--end of glossdiv.attlist-->]]>
<!--end of glossdiv.module-->]]>
<!--end of glossary.content.module-->]]>

<!-- ..... -->
<!-- Index and SetIndex ..... -->

<!ENTITY % index.content.module "INCLUDE">
<![%index.content.module;[
<!ENTITY % indexes.module "INCLUDE">
<![%indexes.module;[
<!ENTITY % local.indexes.attrib "">
<!ENTITY % indexes.role.attrib "%role.attrib;">

<!ENTITY % index.element "INCLUDE">
<![%index.element;[
<!ELEMENT index (indexinfo?,
            (%bookcomponent.title.content;)?,
            (%component.mix;)*,
            (indexdiv* | indexentry*))>
<!--end of index.element-->]]>

<!ENTITY % index.attlist "INCLUDE">
<![%index.attlist;[
<!ATTLIST
 index
 %common.attrib;
 %indexes.role.attrib;
 %local.indexes.attrib;
>
<!--end of index.attlist-->]]>

<!ENTITY % setindex.element "INCLUDE">
<![%setindex.element;[
<!ELEMENT setindex (setindexinfo?,
              (%bookcomponent.title.content;)?,
              (%component.mix;)*, (indexdiv* | indexentry*))>
<!--end of setindex.element-->]]>

<!ENTITY % setindex.attlist "INCLUDE">
<![%setindex.attlist;[
<!ATTLIST setindex
 %common.attrib;
```

```
  %indexes.role.attrib;
  %local.indexes.attrib;
>
<!--end of setindex.attlist-->]]>
<!--end of indexes.module-->]]>

<!ENTITY % indexdiv.module "INCLUDE">
<![%indexdiv.module;[

<!-- SegmentedList in this content is useful for marking up permuted
    indices. -->

<!ENTITY % local.indexdiv.attrib "">
<!ENTITY % indexdiv.role.attrib "%role.attrib;">

<!ENTITY % indexdiv.element "INCLUDE">
<![%indexdiv.element;[
<!ELEMENT indexdiv ((%sect.title.content;)?, ((%indexdivcomponent.mix;)*,
  (indexentry+
 | segmentedlist)))>
<!--end of indexdiv.element-->]]>

<!ENTITY % indexdiv.attlist "INCLUDE">
<![%indexdiv.attlist;[
<!ATTLIST indexdiv
  %common.attrib;
  %indexdiv.role.attrib;
  %local.indexdiv.attrib;
>
<!--end of indexdiv.attlist-->]]>
<!--end of indexdiv.module-->]]>

<!ENTITY % indexentry.module "INCLUDE">
<![%indexentry.module;[
<!-- Index entries appear in the index, not the text. -->

<!ENTITY % local.indexentry.attrib "">
<!ENTITY % indexentry.role.attrib "%role.attrib;">

<!ENTITY % indexentry.element "INCLUDE">
<![%indexentry.element;[
<!ELEMENT indexentry (primaryie, (seeie|seealsoie)*,
  (secondaryie, (seeie|seealsoie|tertiaryie)*)*)>
<!--end of indexentry.element-->]]>

<!ENTITY % indexentry.attlist "INCLUDE">
<![%indexentry.attlist;[
<!ATTLIST indexentry
```

```
 %common.attrib;
 %indexentry.role.attrib;
 %local.indexentry.attrib;
>
<!--end of indexentry.attlist-->]]>
<!--end of indexentry.module-->]]>

<!ENTITY % primsecterie.module "INCLUDE">
<![%primsecterie.module;[
<!ENTITY
 % local.primsecterie.attrib "">
<!ENTITY % primsecterie.role.attrib "%role.attrib;">

<!ENTITY % primaryie.element "INCLUDE">
<![%primaryie.element;[
<!ELEMENT primaryie (%ndxterm.char.mix;)*>
<!--end of primaryie.element-->]]>

<!-- to IndexTerms that these entries represent -->

<!ENTITY % primaryie.attlist "INCLUDE">
<![%primaryie.attlist;[
<!ATTLIST primaryie
 %linkends.attrib;  %common.attrib;
 %primsecterie.role.attrib;
 %local.primsecterie.attrib;
>
<!--end of primaryie.attlist-->]]>

<!ENTITY % secondaryie.element "INCLUDE">
<![%secondaryie.element;[
<!ELEMENT secondaryie (%ndxterm.char.mix;)*>
<!--end of secondaryie.element-->]]>

<!-- to IndexTerms that these entries represent -->

<!ENTITY % secondaryie.attlist "INCLUDE">
<![%secondaryie.attlist;[
<!ATTLIST secondaryie
 %linkends.attrib;  %common.attrib;
 %primsecterie.role.attrib;
 %local.primsecterie.attrib;
>
<!--end of secondaryie.attlist-->]]>

<!ENTITY % tertiaryie.element "INCLUDE">
<![%tertiaryie.element;[
<!ELEMENT
```

```
 tertiaryie (%ndxterm.char.mix;)*>
<!--end of tertiaryie.element-->]]>

<!-- to IndexTerms that these entries represent -->

<!ENTITY % tertiaryie.attlist "INCLUDE">
<![%tertiaryie.attlist;[
<!ATTLIST tertiaryie
  %linkends.attrib;  %common.attrib;
  %primsecterie.role.attrib;
  %local.primsecterie.attrib;
>
<!--end of tertiaryie.attlist-->]]>

<!--end of primsecterie.module-->]]>

<!ENTITY % seeie.module "INCLUDE">
<![%seeie.module;[
<!ENTITY % local.seeie.attrib "">
<!ENTITY % seeie.role.attrib "%role.attrib;">

<!ENTITY % seeie.element "INCLUDE">
<![%seeie.element;[
<!ELEMENT seeie (%ndxterm.char.mix;)*>
<!--end of seeie.element-->]]>

<!-- to IndexEntry to look up -->


<!ENTITY % seeie.attlist "INCLUDE">
<![%seeie.attlist;[
<!ATTLIST seeie
  %linkend.attrib;  %common.attrib;
  %seeie.role.attrib;
  %local.seeie.attrib;
>
<!--end of seeie.attlist-->]]>
<!--end of seeie.module-->]]>

<!ENTITY % seealsoie.module "INCLUDE">
<![%seealsoie.module;[
<!ENTITY % local.seealsoie.attrib
 "">
<!ENTITY % seealsoie.role.attrib "%role.attrib;">

<!ENTITY % seealsoie.element "INCLUDE">
<![%seealsoie.element;[
<!ELEMENT seealsoie (%ndxterm.char.mix;)*>
```

```
<!--end of seealsoie.element-->]]>

<!-- to related IndexEntries -->


<!ENTITY % seealsoie.attlist "INCLUDE">
<![%seealsoie.attlist;[
<!ATTLIST seealsoie
  %linkends.attrib;  %common.attrib;
  %seealsoie.role.attrib;
  %local.seealsoie.attrib;
>
<!--end of seealsoie.attlist-->]]>
<!--end of seealsoie.module-->]]>
<!--end of index.content.module-->]]>

<!-- ..... -->
<!-- RefEntry ..... -->

<!ENTITY % refentry.content.module "INCLUDE">
<![%refentry.content.module;[
<!ENTITY % refentry.module "INCLUDE">
<![%refentry.module;[
<!ENTITY % local.refentry.attrib "">
<!ENTITY % refentry.role.attrib "%role.attrib;">

<!ENTITY % refentry.element "INCLUDE">
<![%refentry.element;[
<!ELEMENT refentry ((%ndxterm.class;)*,
                    refentryinfo?, refmeta?, (remark|%link.char.class;)*,
                   refnamediv, refsynopsisdiv?, refsect1+)>
<!--end of refentry.element-->]]>

<!ENTITY % refentry.attlist "INCLUDE">
<![%refentry.attlist;[
<!ATTLIST refentry
  %status.attrib;
  %common.attrib;
  %refentry.role.attrib;
  %local.refentry.attrib;
>
<!--end of refentry.attlist-->]]>
<!--end of refentry.module-->]]>

<!ENTITY % refmeta.module "INCLUDE">
<![%refmeta.module;[
<!ENTITY % local.refmeta.attrib "">
<!ENTITY % refmeta.role.attrib "%role.attrib;">
```

```
<!ENTITY % refmeta.element "INCLUDE">
<![%refmeta.element;[
<!ELEMENT refmeta ((%ndxterm.class;)*,
                refentrytitle, manvolnum?, refmiscinfo*,
                (%ndxterm.class;)*)>
<!--end of refmeta.element-->]]>

<!ENTITY % refmeta.attlist "INCLUDE">
<![%refmeta.attlist;[
<!ATTLIST refmeta
  %common.attrib;
  %refmeta.role.attrib;
  %local.refmeta.attrib;
>
<!--end of refmeta.attlist-->]]>
<!--end of refmeta.module-->]]>

<!ENTITY
 % refmiscinfo.module "INCLUDE">
<![%refmiscinfo.module;[
<!ENTITY % local.refmiscinfo.attrib "">
<!ENTITY % refmiscinfo.role.attrib "%role.attrib;">

<!ENTITY % refmiscinfo.element "INCLUDE">
<![%refmiscinfo.element;[
<!ELEMENT refmiscinfo (%docinfo.char.mix;)*>
<!--end of refmiscinfo.element-->]]>

<!-- Class: Freely assignable parameter; no default -->


<!ENTITY % refmiscinfo.attlist "INCLUDE">
<![%refmiscinfo.attlist;[
<!ATTLIST refmiscinfo
  class  CDATA  #IMPLIED
  %common.attrib;
  %refmiscinfo.role.attrib;
  %local.refmiscinfo.attrib;
>
<!--end of refmiscinfo.attlist-->]]>
<!--end of refmiscinfo.module-->]]>

<!ENTITY % refnamediv.module "INCLUDE">
<![%refnamediv.module;[
<!ENTITY % local.refnamediv.attrib "">
<!ENTITY % refnamediv.role.attrib "%role.attrib;">
```

```
<!ENTITY % refnamediv.element "INCLUDE">
<![%refnamediv.element;[
<!ELEMENT refnamediv (refdescriptor?, refname+, refpurpose, refclass*,
  (remark|%link.char.class;)*)>
<!--end of refnamediv.element-->]]>

<!ENTITY
 % refnamediv.attlist "INCLUDE">
<![%refnamediv.attlist;[
<!ATTLIST refnamediv
  %common.attrib;
  %refnamediv.role.attrib;
  %local.refnamediv.attrib;
>
<!--end of refnamediv.attlist-->]]>
<!--end of refnamediv.module-->]]>

<!ENTITY % refdescriptor.module "INCLUDE">
<![%refdescriptor.module;[
<!ENTITY % local.refdescriptor.attrib "">
<!ENTITY % refdescriptor.role.attrib "%role.attrib;">

<!ENTITY % refdescriptor.element "INCLUDE">
<![%refdescriptor.element;[
<!ELEMENT refdescriptor (%refname.char.mix;)*>
<!--end of refdescriptor.element-->]]>

<!ENTITY % refdescriptor.attlist "INCLUDE">
<![%refdescriptor.attlist;[
<!ATTLIST refdescriptor
  %common.attrib;
  %refdescriptor.role.attrib;
  %local.refdescriptor.attrib;
>
<!--end of refdescriptor.attlist-->]]>
<!--end of refdescriptor.module-->]]>

<!ENTITY % refname.module "INCLUDE">
<![%refname.module;[
<!ENTITY % local.refname.attrib "">
<!ENTITY % refname.role.attrib "%role.attrib;">

<!ENTITY % refname.element "INCLUDE">
<![%refname.element;[
<!ELEMENT
 refname (%refname.char.mix;)*>
<!--end of refname.element-->]]>
```

```
<!ENTITY % refname.attlist "INCLUDE">
<![%refname.attlist;[
<!ATTLIST refname
  %common.attrib;
  %refname.role.attrib;
  %local.refname.attrib;
>
<!--end of refname.attlist-->]]>
<!--end of refname.module-->]]>

<!ENTITY % refpurpose.module "INCLUDE">
<![%refpurpose.module;[
<!ENTITY % local.refpurpose.attrib "">
<!ENTITY % refpurpose.role.attrib "%role.attrib;">

<!ENTITY % refpurpose.element "INCLUDE">
<![%refpurpose.element;[
<!ELEMENT refpurpose (%refinline.char.mix;)*>
<!--end of refpurpose.element-->]]>

<!ENTITY % refpurpose.attlist "INCLUDE">
<![%refpurpose.attlist;[
<!ATTLIST refpurpose
  %common.attrib;
  %refpurpose.role.attrib;
  %local.refpurpose.attrib;
>
<!--end of refpurpose.attlist-->]]>
<!--end of refpurpose.module-->]]>

<!ENTITY % refclass.module "INCLUDE">
<![%refclass.module;[
<!ENTITY % local.refclass.attrib "">
<!ENTITY % refclass.role.attrib "%role.attrib;">

<!ENTITY
 % refclass.element "INCLUDE">
<![%refclass.element;[
<!ELEMENT refclass (%refclass.char.mix;)*>
<!--end of refclass.element-->]]>

<!ENTITY % refclass.attlist "INCLUDE">
<![%refclass.attlist;[
<!ATTLIST refclass
  %common.attrib;
  %refclass.role.attrib;
  %local.refclass.attrib;
>
```

```
<!--end of refclass.attlist-->]]>
<!--end of refclass.module-->]]>

<!ENTITY % refsynopsisdiv.module "INCLUDE">
<![%refsynopsisdiv.module;[
<!ENTITY % local.refsynopsisdiv.attrib "">
<!ENTITY % refsynopsisdiv.role.attrib "%role.attrib;">

<!ENTITY % refsynopsisdiv.element "INCLUDE">
<![%refsynopsisdiv.element;[
<!ELEMENT refsynopsisdiv (refsynopsisdivinfo?, (%refsect.title.content;)?,
  (((%refcomponent.mix;)+, refsect2*) | (refsect2+)))>
<!--end of refsynopsisdiv.element-->]]>

<!ENTITY % refsynopsisdiv.attlist "INCLUDE">
<![%refsynopsisdiv.attlist;[
<!ATTLIST refsynopsisdiv
  %common.attrib;
  %refsynopsisdiv.role.attrib;
  %local.refsynopsisdiv.attrib;
>
<!--end of refsynopsisdiv.attlist-->]]>
<!--end
 of refsynopsisdiv.module-->]]>

<!ENTITY % refsect1.module "INCLUDE">
<![%refsect1.module;[
<!ENTITY % local.refsect1.attrib "">
<!ENTITY % refsect1.role.attrib "%role.attrib;">

<!ENTITY % refsect1.element "INCLUDE">
<![%refsect1.element;[
<!ELEMENT refsect1 (refsect1info?, (%refsect.title.content;),
  (((%refcomponent.mix;)+, refsect2*) | refsect2+))>
<!--end of refsect1.element-->]]>

<!ENTITY % refsect1.attlist "INCLUDE">
<![%refsect1.attlist;[
<!ATTLIST refsect1
  %status.attrib;
  %common.attrib;
  %refsect1.role.attrib;
  %local.refsect1.attrib;
>
<!--end of refsect1.attlist-->]]>
<!--end of refsect1.module-->]]>

<!ENTITY % refsect2.module "INCLUDE">
```

```
<![%refsect2.module;[
<!ENTITY % local.refsect2.attrib "">
<!ENTITY % refsect2.role.attrib "%role.attrib;">

<!ENTITY % refsect2.element "INCLUDE">
<![%refsect2.element;[
<!ELEMENT refsect2 (refsect2info?, (%refsect.title.content;),
 (((%refcomponent.mix;)+, refsect3*) | refsect3+))>
<!--end of refsect2.element-->]]>

<!ENTITY %
 refsect2.attlist "INCLUDE">
<![%refsect2.attlist;[
<!ATTLIST refsect2
  %status.attrib;
  %common.attrib;
  %refsect2.role.attrib;
  %local.refsect2.attrib;
>
<!--end of refsect2.attlist-->]]>
<!--end of refsect2.module-->]]>

<!ENTITY % refsect3.module "INCLUDE">
<![%refsect3.module;[
<!ENTITY % local.refsect3.attrib "">
<!ENTITY % refsect3.role.attrib "%role.attrib;">

<!ENTITY % refsect3.element "INCLUDE">
<![%refsect3.element;[
<!ELEMENT refsect3 (refsect3info?, (%refsect.title.content;),
 (%refcomponent.mix;)+)>
<!--end of refsect3.element-->]]>

<!ENTITY % refsect3.attlist "INCLUDE">
<![%refsect3.attlist;[
<!ATTLIST refsect3
  %status.attrib;
  %common.attrib;
  %refsect3.role.attrib;
  %local.refsect3.attrib;
>
<!--end of refsect3.attlist-->]]>
<!--end of refsect3.module-->]]>
<!--end of refentry.content.module-->]]>

<!-- ..... -->
<!-- Article ..... -->
```

```
<!ENTITY
 % article.module "INCLUDE">
<![%article.module;[
<!-- An Article is a chapter-level, stand-alone document that is often,
    but need not be, collected into a Book. -->

<!ENTITY % local.article.attrib "">
<!ENTITY % article.role.attrib "%role.attrib;">

<!ENTITY % article.element "INCLUDE">
<![%article.element;[
<!ELEMENT article ((%div.title.content;)?, articleinfo?, tocchap?, lot*,
  (%bookcomponent.content;),
  ((%nav.class;) | (%appendix.class;) | ackno)*)>
<!--end of article.element-->]]>

<!-- Class: Indicates the type of a particular article;
 all articles have the same structure and general purpose.
 No default. -->
<!-- ParentBook: ID of the enclosing Book -->


<!ENTITY % article.attlist "INCLUDE">
<![%article.attlist;[
<!ATTLIST article
 class  (journalarticle
   |productsheet
   |whitepaper
   |techreport
                        |specification
   |faq)  #IMPLIED
 parentbook IDREF  #IMPLIED
 %status.attrib;
 %common.attrib;
 %article.role.attrib;
 %local.article.attrib;
>
<!--end
 of article.attlist-->]]>
<!--end of article.module-->]]>

<!-- End of DocBook XML document hierarchy module V4.1.2 ..... -->
<!-- ..... -->
```

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<!-- DocBook notations module V4.5 ..... -->
<!-- File dbnotnx.mod ..... -->

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    information, see http://www.oasis-open.org/docbook/.
-->

<!-- ..................................................................... -->

<!-- This module contains the notation declarations used by DocBook.

    In DTD driver files referring to this module, please use an entity
    declaration that uses the public identifier shown below:

    <!ENTITY % dbnotn PUBLIC
    "-//OASIS//ENTITIES DocBook Notations V4.5//EN"
    "dbnotnx.mod">
    %dbnotn;

    See the documentation for detailed information
 on the parameter
    entity and module scheme used in DocBook, customizing DocBook and
    planning for interchange, and changes made since the last release
    of DocBook.
-->

<!ENTITY % local.notation.class "">
<!ENTITY % notation.class
  "BMP| CGM-CHAR | CGM-BINARY | CGM-CLEAR | DITROFF | DVI
  | EPS | EQN | FAX | GIF | GIF87a | GIF89a
  | JPG | JPEG | IGES | PCX
  | PIC | PNG | PS | SGML | TBL | TEX | TIFF | WMF | WPG
            | SVG | PDF | SWF
  | linespecific
  %local.notation.class;">

<!NOTATION BMP  PUBLIC
"+//ISBN 0-7923-94.2-1::Graphic Notation//NOTATION Microsoft Windows bitmap//EN">
<!NOTATION CGM-CHAR PUBLIC "ISO 8632/2//NOTATION Character encoding//EN">
<!NOTATION CGM-BINARY PUBLIC "ISO 8632/3//NOTATION Binary encoding//EN">
<!NOTATION CGM-CLEAR PUBLIC "ISO 8632/4//NOTATION Clear text encoding//EN">
<!NOTATION DITROFF SYSTEM "DITROFF">
```

<!NOTATION DVI SYSTEM "DVI">
<!NOTATION EPS PUBLIC
"+//ISBN 0-201-18127-4::Adobe//NOTATION PostScript Language Ref.
 Manual//EN">
<!NOTATION EQN SYSTEM "EQN">
<!NOTATION FAX PUBLIC
"-//USA-DOD//NOTATION CCITT Group 4 Facsimile Type 1 Untiled Raster//EN">
<!NOTATION GIF SYSTEM "GIF">
<!NOTATION GIF87a   PUBLIC
"-//CompuServe//NOTATION Graphics Interchange Format 87a//EN">

<!NOTATION GIF89a   PUBLIC
"-//CompuServe//NOTATION Graphics Interchange Format 89a//EN">
<!NOTATION JPG SYSTEM "JPG">
<!NOTATION JPEG SYSTEM "JPG">
<!NOTATION IGES PUBLIC
"-//USA-DOD//NOTATION (ASME/ANSI Y14.26M-1987) Initial Graphics Exchange Specification//EN">
<!NOTATION PCX PUBLIC
"+//ISBN 0-7923-94.2-1::Graphic Notation//NOTATION ZSoft PCX bitmap//EN">
<!NOTATION PIC SYSTEM "PIC">
<!NOTATION PNG   SYSTEM "http://www.w3.org/TR/REC-png">
<!NOTATION PS SYSTEM "PS">
<!NOTATION SGML PUBLIC
"ISO 8879:1986//NOTATION Standard Generalized Markup Language//EN">
<!NOTATION TBL SYSTEM "TBL">
<!NOTATION TEX PUBLIC
"+//ISBN 0-201-13448-9::Knuth//NOTATION The TeXbook//EN">
<!NOTATION TIFF SYSTEM "TIFF">
<!NOTATION
 WMF PUBLIC
"+//ISBN 0-7923-94.2-1::Graphic Notation//NOTATION Microsoft Windows Metafile//EN">
<!NOTATION WPG SYSTEM "WPG"> <!--WordPerfect Graphic format-->
<!NOTATION SVG SYSTEM "http://www.w3.org/TR/SVG/">
<!NOTATION PDF SYSTEM "http://www.adobe.com/products/acrobat/adobepdf.html">
<!NOTATION SWF   SYSTEM "http://www.macromedia.com/software/flash">
<!NOTATION linespecific SYSTEM "linespecific">

<!-- End of DocBook notations module V4.5 ..... -->
<!-- ..... -->

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* /docbook-xml-4-5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-4.5/dbnotnx.mod
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<!-- ..... -->
<!-- DocBook character entities module V4.4 ..... -->
<!-- File dbcentx.mod ..... -->

```
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-->

<!-- ..................................................................... -->

<!-- This module contains the entity declarations for the standard ISO
   entity sets used by DocBook.

   In DTD driver files referring to this module, please use an entity
   declaration that uses the public identifier shown below:

   <!ENTITY % dbcent PUBLIC
   "-//OASIS//ENTITIES DocBook Character Entities V4.4//EN"
   "dbcentx.mod">
   %dbcent;

    See the documentation for detailed information on the parameter
   entity and module scheme used in DocBook, customizing DocBook and
   planning for interchange, and changes made since the last release
   of DocBook.
-->

<!-- ..................................................................... -->

<![%sgml.features;[
```

```
<!ENTITY % ISOamsa.module "INCLUDE">
<![ %ISOamsa.module; [
<!ENTITY % ISOamsa PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Arrow Relations//EN">
<!--end of ISOamsa.module-->]]>

<!ENTITY % ISOamsb.module "INCLUDE">
<![ %ISOamsb.module; [
<!ENTITY % ISOamsb PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Binary Operators//EN">
<!--end of ISOamsb.module-->]]>

<!ENTITY % ISOamsc.module "INCLUDE">
<![ %ISOamsc.module; [
<!ENTITY % ISOamsc PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Delimiters//EN">
<!--end of ISOamsc.module-->]]>

<!ENTITY % ISOamsn.module "INCLUDE">
<![ %ISOamsn.module; [
<!ENTITY % ISOamsn PUBLIC
"ISO 8879:1986//ENTITIES
 Added Math Symbols: Negated Relations//EN">
<!--end of ISOamsn.module-->]]>

<!ENTITY % ISOamso.module "INCLUDE">
<![ %ISOamso.module; [
<!ENTITY % ISOamso PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Ordinary//EN">
<!--end of ISOamso.module-->]]>

<!ENTITY % ISOamsr.module "INCLUDE">
<![ %ISOamsr.module; [
<!ENTITY % ISOamsr PUBLIC
"ISO 8879:1986//ENTITIES Added Math Symbols: Relations//EN">
<!--end of ISOamsr.module-->]]>

<!ENTITY % ISObox.module "INCLUDE">
<![ %ISObox.module; [
<!ENTITY % ISObox PUBLIC
"ISO 8879:1986//ENTITIES Box and Line Drawing//EN">
<!--end of ISObox.module-->]]>

<!ENTITY % ISOcyr1.module "INCLUDE">
<![ %ISOcyr1.module; [
<!ENTITY % ISOcyr1 PUBLIC
"ISO 8879:1986//ENTITIES Russian Cyrillic//EN">
```

```
<!--end of ISOcyr1.module-->]]>

<!ENTITY % ISOcyr2.module "INCLUDE">
<![ %ISOcyr2.module; [
<!ENTITY % ISOcyr2 PUBLIC
"ISO 8879:1986//ENTITIES Non-Russian Cyrillic//EN">
<!--end of ISOcyr2.module-->]]>

<!ENTITY % ISOdia.module "INCLUDE">
<![ %ISOdia.module;
 [
<!ENTITY % ISOdia PUBLIC
"ISO 8879:1986//ENTITIES Diacritical Marks//EN">
<!--end of ISOdia.module-->]]>

<!ENTITY % ISOgrk1.module "INCLUDE">
<![ %ISOgrk1.module; [
<!ENTITY % ISOgrk1 PUBLIC
"ISO 8879:1986//ENTITIES Greek Letters//EN">
<!--end of ISOgrk1.module-->]]>

<!ENTITY % ISOgrk2.module "INCLUDE">
<![ %ISOgrk2.module; [
<!ENTITY % ISOgrk2 PUBLIC
"ISO 8879:1986//ENTITIES Monotoniko Greek//EN">
<!--end of ISOgrk2.module-->]]>

<!ENTITY % ISOgrk3.module "INCLUDE">
<![ %ISOgrk3.module; [
<!ENTITY % ISOgrk3 PUBLIC
"ISO 8879:1986//ENTITIES Greek Symbols//EN">
<!--end of ISOgrk3.module-->]]>

<!ENTITY % ISOgrk4.module "INCLUDE">
<![ %ISOgrk4.module; [
<!ENTITY % ISOgrk4 PUBLIC
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<!--end of ISOpub.module-->]]>

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<!--end of ISOtech.module-->]]>

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1.712 juju-environschema 1.0.0

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1.713 canonical-go-sp800.108-kdf 0.0.0-20210314145419-a3359f2d21b9

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1.714 libisc-export1105 1:9.11.16+dfsg-3~ubuntu1

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<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
```

```
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">

    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
       <xsl:value-of select="$isc.copyright.breakline"/>
  <xsl:text>&#10;</xsl:text>
</xsl:for-each>
<xsl:value-of
select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

<!--
 - Local variables:
```

- mode: sgml
- End:
-->
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1.716 kmod 27-1ubuntu2

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1.725 binutils 2.34-6ubuntu1.3

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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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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
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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.>
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<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:

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!
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Version 2.1, February 1999

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as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

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This license, the Lesser General Public License, applies to some
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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
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it in new free programs; and that you are informed that you can do
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rights. These restrictions translate to certain responsibilities for
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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
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Most GNU software, including some libraries, is covered by the
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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination
fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with the library.

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

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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

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

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

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

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

fee.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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1.726 openapi-spec-validator 0.3.3

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1.727 ghodss-yaml 1.0.1-0.20190212211648-25d852aebe32

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1.728 vim 8.1.2269-1ubuntu5.7

1.729 initramfs-tools 0.136ubuntu6.7

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The current Debian maintainer are maximilian attems <maks@debian.org>
and Michael Prokop <mika@debian.org>.

The current ubuntu release can be found at:
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The Debian tree is maintained with "git" at:
https://anonscm.debian.org/git/kernel/initramfs-tools.git
https://anonscm.debian.org/cgit/kernel/initramfs-tools.git

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1.730 libdrm 2.4.107-8ubuntu1~20.04.1

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  xsl stylesheets, copyright Rick Jelliffe and Academia Sinica Computing
  Center, Taiwan (see the xsl files here for the license text:
  src/lxml/isoschematron/resources/xsl/iso-schematron-xslt1/)
* The xsd/rng schema schematron extraction xsl transformations are unlicensed
  and copyright the respective authors as noted (see
  src/lxml/isoschematron/resources/xsl/RNG2Schtrn.xsl and
  src/lxml/isoschematron/resources/xsl/XSD2Schtrn.xsl)

1.737 gawk 5.0.1+dfsg-1

1.737.1 Available under license :

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

Preamble

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Licenses are intended to guarantee your freedom to share and change

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

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

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

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

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

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

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

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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
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in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this
function must
be optional: if the application does not supply it, the square
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entire whole, and thus to each and every part regardless of who wrote
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Thus, it is not the intent of this section to claim rights or contest
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In addition,
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This option is useful when you wish to copy part of the code of the
Library into a program that is not a library.

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

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object 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:

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

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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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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

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

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Version 3, 29 June 2007

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

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1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The
"System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A

"Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

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5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

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"keep intact all notices".

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This timer is only activated when on a GCP Ubuntu LTS instance that is not
already using Ubuntu Advantage services (via ua-license-check.path).
This timer triggers a service that will poll the metadata for a GCP instance.
If the user has added an Ubuntu Pro license to the instance, it will
activate Ubuntu Advantage services.

[Unit]
Description=Timer to poll for Ubuntu Pro licenses (Only enabled on GCP LTS non-pro)

[Timer]
OnCalendar=*:0/5
RandomizedDelaySec=5min
OnStartupSec=2min
This service is only activated when on a GCP Ubuntu LTS instance that is not
already using Ubuntu Advantage services (via ua-license-check.timer).
This service polls the metadata for a GCP instance. If the user has added an
Ubuntu Pro license to the instance, it will activate Ubuntu Advantage services.
[Unit]
Description=Poll for Ubuntu Pro licenses (Only enabled on GCP LTS non-pro)
After=network.target network-online.target systemd-networkd.service ua-auto-attach.service

[Service]
Type=oneshot
ExecStart=/usr/bin/python3 /usr/lib/ubuntu-advantage/license_check.py
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: ubuntu-advantage-script
Source: https://github.com/CanonicalLtd/ubuntu-advantage-script

Files: *
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.
On Debian systems, the complete text of the GNU General
Public License version 3 can be found in "/usr/share/common-licenses/GPL-3".
The marker file used here is only created when on a GCP Ubuntu LTS instance
that is not already using Ubuntu Advantage services.
This path triggers a timer that will periodically poll the metadata for a GCP
instance. If the user has added an Ubuntu Pro license to the instance, it will
activate Ubuntu Advantage services.
[Unit]
Description=Trigger to poll for Ubuntu Pro licenses (Only enabled on GCP LTS non-pro)

[Path]

```
PathExists=/var/lib/ubuntu-advantage/marker-license-check
Unit=ua-license-check.timer

[Install]
WantedBy=multi-user.target
Feature: License check timer only runs in environments where necessary

  @series.lts
  @uses.config.contract_token
  @uses.config.machine_type.gcp.generic
  Scenario Outline: license_check job should run periodically on gcp generic lts
    Given a `<release>` machine with ubuntu-advantage-tools installed
    # verify its enabled
    Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes
    # run it and verify that it didn't disable itself
    When I run `systemctl start ua-license-check.service` with sudo
    When I wait `5` seconds
    Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes
    # verify attach disables it
    When I wait `5` seconds
    When I attach `contract_token` with sudo
    Then I verify the `ua-license-check` systemd timer is disabled
    # verify detach enables it
    When I run `ua detach --assume-yes` with sudo
    And I wait
`5` seconds
    Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes
    # verify stopping and deleting marker file and stopping disables it
    #   We need to call stop both before and after rm-ing the marker file
    #     because at least one version of systemd requires it before (245.4-4ubuntu3.11
    #     on focal gcp), and every other tested version of systemd requires it after
    #   But this is only necessary when manually running the steps or in this test.
    #     `disable_license_checks_if_applicable` works fine with only calling stop after,
    #     as evidenced by the "verify attach disables it" steps above passing on focal gcp.
    When I run `systemctl stop ua-license-check.timer` with sudo
    When I run `rm /var/lib/ubuntu-advantage/marker-license-check` with sudo
    When I run `systemctl stop ua-license-check.timer` with sudo
    Then I verify the `ua-license-check` systemd timer
is disabled
    # verify creating marker file enables it
    When I run `touch /var/lib/ubuntu-advantage/marker-license-check` with sudo
    Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes
    Examples: version
      | release |
      | xenial  |
      | bionic  |
      | focal   |
```

```
  @series.hirsute
  @uses.config.contract_token
  @uses.config.machine_type.gcp.generic
  Scenario Outline: license_check is disabled gcp generic non lts
    Given a `<release>` machine with ubuntu-advantage-tools installed
    Then I verify the `ua-license-check` systemd timer is disabled
    # verify creating marker file enables it, but it disables itself
    When I run `touch /var/lib/ubuntu-advantage/marker-license-check` with sudo
    Then I verify the `ua-license-check` systemd timer either ran within the past `5` seconds OR is scheduled to run within `10` minutes
    When I run `systemctl
 start ua-license-check.service` with sudo
    When I wait `5` seconds
    Then I verify the `ua-license-check` systemd timer is disabled
    # verify attach and detach does not enable it
    When I wait `5` seconds
    When I attach `contract_token` with sudo
    When I run `ua detach --assume-yes` with sudo
    When I wait `5` seconds
    Then I verify the `ua-license-check` systemd timer is disabled
    Examples: version
      | release |
      | hirsute |

  @series.all
  @uses.config.contract_token
  @uses.config.machine_type.lxd.container
  @uses.config.machine_type.lxd.vm
  @uses.config.machine_type.aws.generic
  @uses.config.machine_type.azure.generic
  Scenario Outline: license_check is disabled everywhere but gcp generic
    Given a `<release>` machine with ubuntu-advantage-tools installed
    Then I verify the `ua-license-check` systemd timer is disabled
    When I reboot the `<release>` machine
     Then I verify the `ua-license-check` systemd timer is disabled
    # verify creating marker file enables it, but it disables itself
    When I run `touch /var/lib/ubuntu-advantage/marker-license-check` with sudo
    Then I verify the `ua-license-check` systemd timer either ran within the past `5` seconds OR is scheduled to run within `10` minutes
    When I run `systemctl start ua-license-check.service` with sudo
    When I wait `5` seconds
    And I verify that running `grep "Disabling gcp_auto_attach job" /var/log/ubuntu-advantage-license-check.log` `with sudo` exits `0`
    And I verify that running `grep "Disabling gcp_auto_attach job" /var/log/ubuntu-advantage.log` `with sudo` exits `1`
    Then I verify the `ua-license-check` systemd timer is disabled
    # verify attach and detach does not enable it
    When I wait `5` seconds
```

```
    When I attach `contract_token` with sudo
    When I run `ua detach --assume-yes` with sudo

   When I wait `5` seconds
    Then I verify the `ua-license-check` systemd timer is disabled
    Examples: version
      | release |
      | xenial  |
      | bionic  |
      | focal   |
      | hirsute |
      | impish  |
      | jammy   |

  @series.lts
  @uses.config.machine_type.aws.pro
  @uses.config.machine_type.azure.pro
  @uses.config.machine_type.gcp.pro
  Scenario Outline: license_check is disabled everywhere but gcp generic
    Given a `<release>` machine with ubuntu-advantage-tools installed
    When I create the file `/etc/ubuntu-advantage/uaclient.conf` with the following:
    """
    contract_url: 'https://contracts.canonical.com'
    data_dir: /var/lib/ubuntu-advantage
    log_level: debug
    log_file: /var/log/ubuntu-advantage.log
    """
    When I run `ua auto-attach` with sudo
    Then I verify the `ua-license-check` systemd timer is disabled
    # verify creating
 marker file enables it, but it disables itself
    When I run `touch /var/lib/ubuntu-advantage/marker-license-check` with sudo
    Then I verify the `ua-license-check` systemd timer either ran within the past `5` seconds OR is scheduled to run
within `10` minutes
    When I run `systemctl start ua-license-check.service` with sudo
    When I wait `5` seconds
    Then I verify the `ua-license-check` systemd timer is disabled
    Examples: version
      | release |
      | xenial  |
      | bionic  |
      | focal   |
```

1.739 samba 4.13.17~dfsg-0ubuntu0.21.04.1

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Version 2.1, February 1999

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1.741 base-files 11ubuntu5.5

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1.742 network-manager 1.22.10-1ubuntu2.3

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This package was debianized by Michiel Sikkes <michiel@eyesopened.nl> on
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1.757 ubuntu-advantage-tools 27.6

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parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

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Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
This timer is only activated when on a GCP Ubuntu LTS instance that is not
already using Ubuntu Advantage services (via ua-license-check.path).
This timer triggers a service that will poll the metadata for a GCP instance.
If the user has added an Ubuntu Pro license to the instance, it will
activate Ubuntu Advantage services.
[Unit]
Description=Timer to poll for Ubuntu Pro licenses (Only enabled on GCP LTS non-pro)

[Timer]
OnCalendar=*:0/5
RandomizedDelaySec=5min
OnStartupSec=2min
This service is only activated when on a GCP Ubuntu LTS instance that is not
already using Ubuntu Advantage services (via ua-license-check.timer).
This service polls the metadata for a GCP instance. If the user has added an
Ubuntu Pro license to the instance, it will activate Ubuntu Advantage services.
[Unit]
Description=Poll for Ubuntu Pro licenses (Only enabled on GCP LTS non-pro)
After=network.target network-online.target systemd-networkd.service ua-auto-attach.service

[Service]
Type=oneshot
ExecStart=/usr/bin/python3 /usr/lib/ubuntu-advantage/license_check.py

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: ubuntu-advantage-script
Source: https://github.com/CanonicalLtd/ubuntu-advantage-script

Files: *
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.
On Debian systems, the complete text of the GNU General
Public License version 3 can be found in "/usr/share/common-licenses/GPL-3".
The marker file used here is only created when on a GCP Ubuntu LTS instance
that is not already using Ubuntu Advantage services.
This path triggers a timer that will periodically poll the metadata for a GCP
instance. If the user has added an Ubuntu Pro license to the instance, it will
activate Ubuntu Advantage services.
[Unit]
Description=Trigger to poll for Ubuntu Pro licenses (Only enabled on GCP LTS non-pro)

[Path]
PathExists=/var/lib/ubuntu-advantage/marker-license-check
Unit=ua-license-check.timer

[Install]
WantedBy=multi-user.target
Feature: License check timer only runs in environments where necessary

  @series.lts
  @uses.config.contract_token
  @uses.config.machine_type.gcp.generic
  Scenario Outline: license_check job should run periodically on gcp generic lts
    Given a `<release>` machine with ubuntu-advantage-tools installed
    # verify its enabled
    Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes
    # run it and verify that it didn't disable itself
    When I run `systemctl start ua-license-check.service` with sudo
    When I wait `5` seconds
    Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes

```
    # verify attach disables it
    When I wait `5` seconds
    When I attach `contract_token` with sudo
    Then I verify the `ua-license-check` systemd timer is disabled
    # verify detach enables it
    When I run `ua detach --assume-yes` with sudo
    And I wait
`5` seconds
    Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes
    # verify stopping and deleting marker file and stopping disables it
    #   We need to call stop both before and after rm-ing the marker file
    #     because at least one version of systemd requires it before (245.4-4ubuntu3.11
    #     on focal gcp), and every other tested version of systemd requires it after
    #   But this is only necessary when manually running the steps or in this test.
    #     `disable_license_checks_if_applicable` works fine with only calling stop after,
    #     as evidenced by the "verify attach disables it" steps above passing on focal gcp.
    When I run `systemctl stop ua-license-check.timer` with sudo
    When I run `rm /var/lib/ubuntu-advantage/marker-license-check` with sudo
    When I run `systemctl stop ua-license-check.timer` with sudo
    Then I verify the `ua-license-check` systemd timer
is disabled
    # verify creating marker file enables it
    When I run `touch /var/lib/ubuntu-advantage/marker-license-check` with sudo
    Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes
    Examples: version
      | release |
      | xenial  |
      | bionic  |
      | focal   |

  @series.hirsute
  @uses.config.contract_token
  @uses.config.machine_type.gcp.generic
  Scenario Outline: license_check is disabled gcp generic non lts
    Given a `<release>` machine with ubuntu-advantage-tools installed
    Then I verify the `ua-license-check` systemd timer is disabled
    # verify creating marker file enables it, but it disables itself
    When I run `touch /var/lib/ubuntu-advantage/marker-license-check` with sudo
    Then I verify the `ua-license-check` systemd timer either ran within the past `5` seconds OR is scheduled to run
within `10` minutes
    When I run `systemctl
start ua-license-check.service` with sudo
    When I wait `5` seconds
    Then I verify the `ua-license-check` systemd timer is disabled
    # verify attach and detach does not enable it
    When I wait `5` seconds
    When I attach `contract_token` with sudo
    When I run `ua detach --assume-yes` with sudo
```

```
    When I wait `5` seconds
    Then I verify the `ua-license-check` systemd timer is disabled
    Examples: version
      | release |
      | hirsute |

  @series.all
  @uses.config.contract_token
  @uses.config.machine_type.lxd.container
  @uses.config.machine_type.lxd.vm
  @uses.config.machine_type.aws.generic
  @uses.config.machine_type.azure.generic
  Scenario Outline: license_check is disabled everywhere but gcp generic
    Given a `<release>` machine with ubuntu-advantage-tools installed
    Then I verify the `ua-license-check` systemd timer is disabled
    When I reboot the `<release>` machine
     Then I verify the `ua-license-check` systemd timer is disabled
    # verify creating marker file enables it, but it disables itself
    When I run `touch /var/lib/ubuntu-advantage/marker-license-check` with sudo
    Then I verify the `ua-license-check` systemd timer either ran within the past `5` seconds OR is scheduled to run within `10` minutes
    When I run `systemctl start ua-license-check.service` with sudo
    When I wait `5` seconds
    And I verify that running `grep "Disabling gcp_auto_attach job" /var/log/ubuntu-advantage-license-check.log` `with sudo` exits `0`
    And I verify that running `grep "Disabling gcp_auto_attach job" /var/log/ubuntu-advantage.log` `with sudo` exits `1`
    Then I verify the `ua-license-check` systemd timer is disabled
    # verify attach and detach does not enable it
    When I wait `5` seconds
    When I attach `contract_token` with sudo
    When I run `ua detach --assume-yes` with sudo

   When I wait `5` seconds
    Then I verify the `ua-license-check` systemd timer is disabled
    Examples: version
      | release |
      | xenial  |
      | bionic  |
      | focal   |
      | hirsute |
      | impish  |
      | jammy   |

  @series.lts
  @uses.config.machine_type.aws.pro
  @uses.config.machine_type.azure.pro
  @uses.config.machine_type.gcp.pro
```

```
  Scenario Outline: license_check is disabled everywhere but gcp generic
    Given a `<release>` machine with ubuntu-advantage-tools installed
    When I create the file `/etc/ubuntu-advantage/uaclient.conf` with the following:
    """
    contract_url: 'https://contracts.canonical.com'
    data_dir: /var/lib/ubuntu-advantage
    log_level: debug
    log_file: /var/log/ubuntu-advantage.log
    """
    When I run `ua auto-attach` with sudo
    Then I verify the `ua-license-check` systemd timer is disabled
    # verify creating
 marker file enables it, but it disables itself
    When I run `touch /var/lib/ubuntu-advantage/marker-license-check` with sudo
    Then I verify the `ua-license-check` systemd timer either ran within the past `5` seconds OR is scheduled to run
within `10` minutes
    When I run `systemctl start ua-license-check.service` with sudo
    When I wait `5` seconds
    Then I verify the `ua-license-check` systemd timer is disabled
    Examples: version
      | release |
      | xenial  |
      | bionic  |
      | focal   |
```

1.758 snapd 2.54.3+20.04.1ubuntu0.2

1.758.1 Available under license :

```
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Gocheck - A rich testing framework for Go

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mgo - MongoDB driver for Go

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BSON library for Go

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*/

package spdx

// From https://spdx.org/licenses/
// data files: https://github.com/spdx/license-list-data
// Version: 3.11 2020-11-25
//
// jq < json/licenses.json '.licenses | .[] | select(.isOsiApproved == true) | .licenseId' | sort | sed -e 's/$/,/'
var osi = []string{
 "0BSD",
 "AAL",
 "AFL-1.1",
 "AFL-1.2",
 "AFL-2.0",
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"AFL-3.0",
"AGPL-3.0",
"AGPL-3.0-only",
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"EPL-1.0",
"EPL-2.0",
"EUDatagrid",
"EUPL-1.1",
"EUPL-1.2",
"Fair",
"Frameworx-1.0",
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"GPL-2.0+",
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"GPL-2.0-or-later",
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"GPL-3.0+",
"GPL-3.0-only",
"GPL-3.0-or-later",
"GPL-3.0-with-GCC-exception",
"HPND",
"Intel",
"IPA",
"IPL-1.0",
"ISC",
"LGPL-2.0",
"LGPL-2.0+",
"LGPL-2.0-only",
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"LGPL-3.0-or-later",
"LiLiQ-P-1.1",
"LiLiQ-R-1.1",
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"LPL-1.0",
"LPL-1.02",
"LPPL-1.3c",
"MirOS",
"MIT",
"MIT-0",
"Motosoto",
"MPL-1.0",
"MPL-1.1",
"MPL-2.0",
"MPL-2.0-no-copyleft-exception",
"MS-PL",
"MS-RL",
"MulanPSL-2.0",
"Multics",
"NASA-1.3",
"Naumen",
"NCSA",
"NGPL",
"Nokia",
"NPOSL-3.0",
"NTP",
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 "SPL-1.0",
 "UCL-1.0",
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 "VSL-1.0",
 "W3C",
 "Watcom-1.0",
 "Xnet",
 "Zlib",
 "ZPL-2.0",
}

//
 using SPDX license data:
// jq < json/licenses.json '.licenses | .[] | .licenseId' | sort | sed -e 's/$/,/'
var allLicenses = []string{
 "0BSD",
 "AAL",
 "Abstyles",
 "Adobe-2006",
 "Adobe-Glyph",
 "ADSL",
 "AFL-1.1",
 "AFL-1.2",
 "AFL-2.0",
 "AFL-2.1",
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"AFL-3.0",
"Afmparse",
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"AGPL-1.0-only",
"AGPL-1.0-or-later",
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"AGPL-3.0-only",
"AGPL-3.0-or-later",
"Aladdin",
"AMDPLPA",
"AML",
"AMPAS",
"ANTLR-PD",
"ANTLR-PD-fallback",
"Apache-1.0",
"Apache-1.1",
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"APAFML",
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"Bahyph",
"Barr",
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"BitTorrent-1.0",
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"BlueOak-1.0.0",
"Borceux",
"BSD-1-Clause",
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"BSD-2-Clause-FreeBSD",
"BSD-2-Clause-NetBSD",
"BSD-2-Clause-Patent",
"BSD-2-Clause-Views",
"BSD-3-Clause",
"BSD-3-Clause-Attribution",
"BSD-3-Clause-Clear",
"BSD-3-Clause-LBNL",
"BSD-3-Clause-No-Nuclear-License",
"BSD-3-Clause-No-Nuclear-License-2014",
"BSD-3-Clause-No-Nuclear-Warranty",

"BSD-3-Clause-Open-MPI",
"BSD-4-Clause",
"BSD-4-Clause-UC",
"BSD-Protection",
"BSD-Source-Code",
"BSL-1.0",
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"CAL-1.0",
"CAL-1.0-Combined-Work-Exception",
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"CC-BY-3.0-AT",
"CC-BY-3.0-US",
"CC-BY-4.0",
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"CC-BY-NC-2.0",
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"CC-BY-NC-4.0",
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"CC-BY-NC-ND-3.0-IGO",
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"CNRI-Python-GPL-Compatible",
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"Crossword",
"CrystalStacker",
"CUA-OPL-1.0",
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"D-FSL-1.0",
"diffmark",
"DOC",
"Dotseqn",
"DSDP",
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"HTMLTIDY",
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"iMatix",
"Imlib2",
"Info-ZIP",
"Intel",
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"Latex2e",
"Leptonica",
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"ZPL-2.0",
"ZPL-2.1",

//
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}

// from
https://www.google.com/url?q=https://docs.google.com/a/s.sfusd.edu/document/d/1wE_zvLU4c291ACi9wIJmQoE4ltKRW4rzM1TYiIvEVOs/edit?pli%3D1%23heading%3Dh.ruv3yl8g6czd&sa=D&ust=1473291615601000&usg=AFQjCNFyLcPLdEarX1TOesGWxg9Afb57mA
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"Font-exception-2.0",
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"GCC-exception-3.1",
"WxWindows-exception-3.1",
}
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Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: snappy
Source: https://github.com/snapcore/snapd

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tomb - support for clean goroutine termination in Go.

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The specification of DOM Level 1's various parts is at:
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Links to all available W3C DOM Java Bindings can be found at:
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The actual classes of The Simple API for CSS (SAC) came from:
http://www.w3.org/Style/CSS/SAC/
http://www.w3.org/2002/06/sacjava-1.3.zip

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Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005)

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1.766 configobj 5.0.6-4

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1.767 pyserial 3.4-5.1

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1.768 pyudev 0.21.0-3ubuntu1

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1.769 bison 3.5.1+dfsg-1

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 xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
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```
<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">

    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

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  <xsl:text>
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  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
       <xsl:value-of select="$isc.copyright.breakline"/>
  <xsl:text>&#10;</xsl:text>
</xsl:for-each>
<xsl:value-of
select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

<!--
 - Local variables:
 - mode: sgml
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-->
```

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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/@WBRSRlBZDhBFXQB6/>
 * 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 <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
 <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 <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.

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

1.777 zipp 3.8.0

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1.778 gorilla 1.5.0

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1.779 josharian-native 1.0.0

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1.780 mdlayher-packet 1.0.0

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1.781 cavium-liquidio 3.1.2

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1.791 creack 1.1.18

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1.792 mdlayher-socket 0.2.3

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1.793 tcpdump 4.9.3-4ubuntu0.1

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Gocheck - A rich testing framework for Go

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mgo - MongoDB driver for Go

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// From https://spdx.org/licenses/
// data files: https://github.com/spdx/license-list-data
// Version: 3.11 2020-11-25

```
//
// jq < json/licenses.json '.licenses | .[] | select(.isOsiApproved == true) | .licenseId' | sort | sed -e 's/$/,/'
var osi = []string{
 "0BSD",
 "AAL",
 "AFL-1.1",
 "AFL-1.2",
 "AFL-2.0",
 "AFL-2.1",
 "AFL-3.0",
 "AGPL-3.0",
 "AGPL-3.0-only",
 "AGPL-3.0-or-later",
 "Apache-1.1",
 "Apache-2.0",
 "APL-1.0",
 "APSL-1.0",
 "APSL-1.1",
 "APSL-1.2",
 "APSL-2.0",
 "Artistic-1.0",
 "Artistic-1.0-cl8",
 "Artistic-1.0-Perl",
 "Artistic-2.0",
 "BSD-1-Clause",
 "BSD-2-Clause",
 "BSD-2-Clause-Patent",
 "BSD-3-Clause",
 "BSD-3-Clause-LBNL",
 "BSL-1.0",
 "CAL-1.0",
 "CAL-1.0-Combined-Work-Exception",
 "CATOSL-1.1",
 "CDDL-1.0",
 "CECILL-2.1",
 "CNRI-Python",
 "CPAL-1.0",
 "CPL-1.0",
 "CUA-OPL-1.0",
 "ECL-1.0",
 "ECL-2.0",
 "EFL-1.0",
 "EFL-2.0",
 "Entessa",
 "EPL-1.0",
 "EPL-2.0",
 "EUDatagrid",
 "EUPL-1.1",
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"EUPL-1.2",
"Fair",
"Frameworx-1.0",
"GPL-2.0",
"GPL-2.0+",
"GPL-2.0-only",
"GPL-2.0-or-later",
"GPL-3.0",
"GPL-3.0+",
"GPL-3.0-only",
"GPL-3.0-or-later",
"GPL-3.0-with-GCC-exception",
"HPND",
"Intel",
"IPA",
"IPL-1.0",
"ISC",
"LGPL-2.0",
"LGPL-2.0+",
"LGPL-2.0-only",
"LGPL-2.0-or-later",
"LGPL-2.1",
"LGPL-2.1+",
"LGPL-2.1-only",
"LGPL-2.1-or-later",
"LGPL-3.0",
"LGPL-3.0+",
"LGPL-3.0-only",
"LGPL-3.0-or-later",
"LiLiQ-P-1.1",
"LiLiQ-R-1.1",
"LiLiQ-Rplus-1.1",
"LPL-1.0",
"LPL-1.02",
"LPPL-1.3c",
"MirOS",
"MIT",
"MIT-0",
"Motosoto",
"MPL-1.0",
"MPL-1.1",
"MPL-2.0",
"MPL-2.0-no-copyleft-exception",
"MS-PL",
"MS-RL",
"MulanPSL-2.0",
"Multics",
"NASA-1.3",

```
 "Naumen",
 "NCSA",
 "NGPL",
 "Nokia",
 "NPOSL-3.0",
 "NTP",
 "OCLC-2.0",
 "OFL-1.1",
 "OFL-1.1-no-RFN",
 "OFL-1.1-RFN",
 "OGTSL",
 "OLDAP-2.8",
 "OSET-PL-2.1",
 "OSL-1.0",
 "OSL-2.0",
 "OSL-2.1",
 "OSL-3.0",
 "PHP-3.0",
 "PHP-3.01",
 "PostgreSQL",
 "Python-2.0",
 "QPL-1.0",
 "RPL-1.1",
 "RPL-1.5",
 "RPSL-1.0",
 "RSCPL",
 "SimPL-2.0",
 "SISSL",
 "Sleepycat",
 "SPL-1.0",
 "UCL-1.0",
 "Unicode-DFS-2016",
 "Unlicense",
 "UPL-1.0",
 "VSL-1.0",
 "W3C",
 "Watcom-1.0",
 "Xnet",
 "Zlib",
 "ZPL-2.0",
}

//
 using SPDX license data:
// jq < json/licenses.json '.licenses | .[] | .licenseId' | sort | sed -e 's/$/,/'
var allLicenses = []string{
 "0BSD",
 "AAL",
```

"Abstyles",
"Adobe-2006",
"Adobe-Glyph",
"ADSL",
"AFL-1.1",
"AFL-1.2",
"AFL-2.0",
"AFL-2.1",
"AFL-3.0",
"Afmparse",
"AGPL-1.0",
"AGPL-1.0-only",
"AGPL-1.0-or-later",
"AGPL-3.0",
"AGPL-3.0-only",
"AGPL-3.0-or-later",
"Aladdin",
"AMDPLPA",
"AML",
"AMPAS",
"ANTLR-PD",
"ANTLR-PD-fallback",
"Apache-1.0",
"Apache-1.1",
"Apache-2.0",
"APAFML",
"APL-1.0",
"APSL-1.0",
"APSL-1.1",
"APSL-1.2",
"APSL-2.0",
"Artistic-1.0",
"Artistic-1.0-cl8",
"Artistic-1.0-Perl",
"Artistic-2.0",
"Bahyph",
"Barr",
"Beerware",
"BitTorrent-1.0",
"BitTorrent-1.1",
"blessing",
"BlueOak-1.0.0",
"Borceux",
"BSD-1-Clause",
"BSD-2-Clause",
"BSD-2-Clause-FreeBSD",
"BSD-2-Clause-NetBSD",
"BSD-2-Clause-Patent",

"BSD-2-Clause-Views",
"BSD-3-Clause",
"BSD-3-Clause-Attribution",
"BSD-3-Clause-Clear",
"BSD-3-Clause-LBNL",
"BSD-3-Clause-No-Nuclear-License",
"BSD-3-Clause-No-Nuclear-License-2014",
"BSD-3-Clause-No-Nuclear-Warranty",
"BSD-3-Clause-Open-MPI",
"BSD-4-Clause",
"BSD-4-Clause-UC",
"BSD-Protection",
"BSD-Source-Code",
"BSL-1.0",
"BUSL-1.1",
"bzip2-1.0.5",
"bzip2-1.0.6",
"CAL-1.0",
"CAL-1.0-Combined-Work-Exception",
"Caldera",
"CATOSL-1.1",
"CC0-1.0",
"CC-BY-1.0",
"CC-BY-2.0",
"CC-BY-2.5",
"CC-BY-3.0",
"CC-BY-3.0-AT",
"CC-BY-3.0-US",
"CC-BY-4.0",
"CC-BY-NC-1.0",
"CC-BY-NC-2.0",
"CC-BY-NC-2.5",
"CC-BY-NC-3.0",
"CC-BY-NC-4.0",
"CC-BY-NC-ND-1.0",
"CC-BY-NC-ND-2.0",
"CC-BY-NC-ND-2.5",
"CC-BY-NC-ND-3.0",
"CC-BY-NC-ND-3.0-IGO",
"CC-BY-NC-ND-4.0",
"CC-BY-NC-SA-1.0",
"CC-BY-NC-SA-2.0",
"CC-BY-NC-SA-2.5",
"CC-BY-NC-SA-3.0",
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Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: snappy
Source: https://github.com/snapcore/snapd

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tomb - support for clean goroutine termination in Go.

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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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1.810 libblockdev-lvm2 2.23-2ubuntu3

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1.811 nfs-kernel-server 1.3.4-2.5ubuntu3.4

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1.813 typing-extensions 4.2.0

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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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This package was put together by Matthias Klose <doko@debian.org>, from
the following sources:

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Mesa 3-D graphics library
Version: 7.0

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1.822 protobuf 3.20.1

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==========
click-contrib
==========

As the userbase of Click grows, more and more major feature requests pop up in
Click's bugtracker. As reasonable as it may be for those features to be bundled
with Click instead of being a standalone project, many of those requested
features are either highly experimental or have unproven practical use, while
potentially being a burden to maintain.

This is why click-contrib_ exists. The GitHub organization is a collection of
possibly experimental third-party packages whose featureset does not belong
into Click, but also a playground for major features that may be added to Click
in the future. It is also meant to coordinate and concentrate effort on writing
third-party extensions for Click, and to ease the effort of searching for such
extensions. In that sense it could be described as a low-maintenance
alternative to extension repositories of other frameworks.

Please
note that the quality and stability of those packages may be different
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.. _click-contrib: https://github.com/click-contrib/

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* /click-8-1-3-tar-gz/click-8.1.3/docs/contrib.rst

1.826 werkzeug 2.1.2

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1.828 flask 2.1.2

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Metadata-Version: 2.1
Name: Flask
Version: 2.1.2
Summary: A simple framework for building complex web applications.
Home-page: https://palletsprojects.com/p/flask
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
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Requires-Python: >=3.7
Description-Content-Type: text/x-rst
Provides-Extra: async
Provides-Extra: dotenv
License-File: LICENSE.rst

Flask
=====

Flask is a lightweight `WSGI`_ web application framework. It is designed
to make getting started quick and easy, with the ability to scale up to
complex applications. It began as a simple wrapper around `Werkzeug`_
and `Jinja`_ and has become one of the most popular Python web
application frameworks.

Flask offers suggestions, but doesn't enforce any dependencies or
project layout. It is up to the developer to choose the tools and
libraries they want to use. There
 are many extensions provided by the
community that make adding new functionality easy.

.. _WSGI: https://wsgi.readthedocs.io/
.. _Werkzeug: https://werkzeug.palletsprojects.com/
.. _Jinja: https://jinja.palletsprojects.com/

Installing

Install and update using `pip`_:

.. code-block:: text

  $ pip install -U Flask

.. _pip: https://pip.pypa.io/en/stable/getting-started/

A Simple Example

.. code-block:: python

  # save this as app.py
  from flask import Flask

```
  app = Flask(__name__)

  @app.route("/")
  def hello():
      return "Hello, World!"
```

```
.. code-block:: text

  $ flask run
    * Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
```

Contributing

For guidance on setting up a development environment and how to make a
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.. _contributing guidelines: https://github.com/pallets/flask/blob/main/CONTRIBUTING.rst

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Found in path(s):
* /flask-2-1-2-tar-gz/Flask-2.1.2/PKG-INFO

* /flask-2-1-2-tar-gz/Flask-2.1.2/src/Flask.egg-info/PKG-INFO
No license file was found, but licenses were detected in source scan.

[metadata]
name = Flask
version = attr: flask.__version__
url = https://palletsprojects.com/p/flask
project_urls =
 Donate = https://palletsprojects.com/donate
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license = BSD-3-Clause
author = Armin Ronacher
author_email = armin.ronacher@active-4.com
maintainer = Pallets
maintainer_email = contact@palletsprojects.com
description = A simple framework for building complex web applications.
long_description = file: README.rst
long_description_content_type = text/x-rst
classifiers =
 Development Status :: 5 - Production/Stable
 Environment :: Web Environment
 Framework :: Flask
 Intended Audience :: Developers
 License :: OSI Approved
 :: BSD License
 Operating System :: OS Independent
 Programming Language :: Python
 Topic :: Internet :: WWW/HTTP :: Dynamic Content
 Topic :: Internet :: WWW/HTTP :: WSGI
 Topic :: Internet :: WWW/HTTP :: WSGI :: Application
 Topic :: Software Development :: Libraries :: Application Frameworks

[options]
packages = find:
package_dir = = src
include_package_data = True
python_requires = >= 3.7

[options.packages.find]
where = src

[options.entry_points]
console_scripts =

```
 flask = flask.cli:main

[tool:pytest]
testpaths = tests
filterwarnings =
 error

[coverage:run]
branch = True
source =
 flask
 tests

[coverage:paths]
source =
 src
 */site-packages

[flake8]
select = B, E, F, W, B9, ISC
ignore =
 E203
 E402
 E501
 E722
 W503
max-line-length = 80
per-file-ignores =
 src/flask/__init__.py: F401

[mypy]
files = src/flask
python_version = 3.7
show_error_codes = True
allow_redefinition = True
disallow_subclassing_any = True
no_implicit_optional = True
local_partial_types = True
strict_equality
 = True
warn_redundant_casts = True
warn_unused_configs = True
warn_unused_ignores = True

[mypy-asgiref.*]
ignore_missing_imports = True

[mypy-blinker.*]
```

ignore_missing_imports = True

[mypy-dotenv.*]
ignore_missing_imports = True

[mypy-cryptography.*]
ignore_missing_imports = True

[egg_info]
tag_build =
tag_date = 0

Found in path(s):
* /flask-2-1-2-tar-gz/Flask-2.1.2/setup.cfg
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Flask leverages Jinja2 as its template engine. You are obviously free to use

Found in path(s):
* /flask-2-1-2-tar-gz/Flask-2.1.2/docs/templating.rst

1.829 distro 1.4.0

1.829.1 Available under license :

Thanks!

* https://github.com/andy-maier
* https://github.com/SethMichaelLarson
* https://github.com/asottile
* https://github.com/MartijnBraam
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1.830 ipaddr 2.2.0

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1.831 progress 1.5

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1.832 bcrypt 3.2.2

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1.833 pkg_resources 0.0.0

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Found in path(s):
* /pkg-resources-0-0-0-dist-info-zip/inputdir/packages_extracted/wheel/103/pkg_resources-0.0.0.dist-info/METADATA

1.834 sqlalchemy 1.4.36

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1.835 networkx 2.8

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1.836 openssl 1.1.1o

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

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

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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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1.852 curl 7.68.0-1ubuntu2.11

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1.853 openssh 8.2p1-4ubuntu0.5

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1.860 libvirt-python 8.3.0

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1.861 ubuntu-advantage-tools 27.8

1.861.1 Available under license :

Feature: License check timer only runs in environments where necessary

@series.lts
@uses.config.contract_token
@uses.config.machine_type.gcp.generic
Scenario Outline: license_check job should run periodically on gcp generic lts
Given a `<release>` machine with ubuntu-advantage-tools installed
verify its enabled
Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes

```
    # run it and verify that it didn't disable itself
    When I run `systemctl start ua-license-check.service` with sudo
    When I wait `5` seconds
    Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes
    # verify attach disables it
    When I wait `5` seconds
    When I attach `contract_token` with sudo
    Then I verify the `ua-license-check` systemd timer is disabled
    # verify detach enables it
    When I run `ua detach --assume-yes` with sudo
    And I wait
`5` seconds
    Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes
    # verify stopping and deleting marker file and stopping disables it
    #   We need to call stop both before and after rm-ing the marker file
    #     because at least one version of systemd requires it before (245.4-4ubuntu3.11
    #     on focal gcp), and every other tested version of systemd requires it after
    #   But this is only necessary when manually running the steps or in this test.
    #     `disable_license_checks_if_applicable` works fine with only calling stop after,
    #     as evidenced by the "verify attach disables it" steps above passing on focal gcp.
    When I run `systemctl stop ua-license-check.timer` with sudo
    When I run `rm /var/lib/ubuntu-advantage/marker-license-check` with sudo
    When I run `systemctl stop ua-license-check.timer` with sudo
    Then I verify the `ua-license-check` systemd timer
is disabled
    # verify creating marker file enables it
    When I run `touch /var/lib/ubuntu-advantage/marker-license-check` with sudo
    Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes
    Examples: version
      | release |
      | xenial  |
      | bionic  |
      | focal   |
      | jammy   |

  @series.impish
  @uses.config.contract_token
  @uses.config.machine_type.gcp.generic
  Scenario Outline: license_check is disabled gcp generic non lts
    Given a `<release>` machine with ubuntu-advantage-tools installed
    Then I verify the `ua-license-check` systemd timer is disabled
    # verify creating marker file enables it, but it disables itself
    When I run `touch /var/lib/ubuntu-advantage/marker-license-check` with sudo
    Then I verify the `ua-license-check` systemd timer either ran within the past `5` seconds OR is scheduled to run
within `10` minutes
     When I run `systemctl start ua-license-check.service` with sudo
    When I wait `5` seconds
    Then I verify the `ua-license-check` systemd timer is disabled
```

```
    # verify attach and detach does not enable it
    When I wait `5` seconds
    When I attach `contract_token` with sudo
    When I run `ua detach --assume-yes` with sudo
    When I wait `5` seconds
    Then I verify the `ua-license-check` systemd timer is disabled
    Examples: version
      | release |
      | impish  |

  @series.all
  @uses.config.contract_token
  @uses.config.machine_type.lxd.container
  @uses.config.machine_type.lxd.vm
  @uses.config.machine_type.aws.generic
  @uses.config.machine_type.azure.generic
  Scenario Outline: license_check is disabled everywhere but gcp generic
    Given a `<release>` machine with ubuntu-advantage-tools installed
    Then I verify the `ua-license-check` systemd timer is disabled
    When I reboot the
 `<release>` machine
    Then I verify the `ua-license-check` systemd timer is disabled
    # verify creating marker file enables it, but it disables itself
    When I run `touch /var/lib/ubuntu-advantage/marker-license-check` with sudo
    Then I verify the `ua-license-check` systemd timer either ran within the past `5` seconds OR is scheduled to run
within `10` minutes
    When I run `systemctl start ua-license-check.service` with sudo
    When I wait `5` seconds
    And I verify that running `grep "Disabling gcp_auto_attach job" /var/log/ubuntu-advantage-license-check.log`
`with sudo` exits `0`
    And I verify that running `grep "Disabling gcp_auto_attach job" /var/log/ubuntu-advantage.log` `with sudo`
exits `1`
    Then I verify the `ua-license-check` systemd timer is disabled
    # verify attach and detach does not enable it
    When I wait `5` seconds
    When I attach `contract_token` with sudo
    When I run `ua detach --assume-yes`
 with sudo
    When I wait `5` seconds
    Then I verify the `ua-license-check` systemd timer is disabled
    Examples: version
      | release |
      | xenial  |
      | bionic  |
      | focal   |
      | impish  |
      | jammy   |
```

```
  @series.lts
  @uses.config.machine_type.aws.pro
  @uses.config.machine_type.azure.pro
  @uses.config.machine_type.gcp.pro
  Scenario Outline: license_check is disabled everywhere but gcp generic
    Given a `<release>` machine with ubuntu-advantage-tools installed
    When I create the file `/etc/ubuntu-advantage/uaclient.conf` with the following:
    """
    contract_url: 'https://contracts.canonical.com'
    data_dir: /var/lib/ubuntu-advantage
    log_level: debug
    log_file: /var/log/ubuntu-advantage.log
    """
    When I run `ua auto-attach` with sudo
    Then I verify the `ua-license-check` systemd timer is disabled
    # verify creating
 marker file enables it, but it disables itself
    When I run `touch /var/lib/ubuntu-advantage/marker-license-check` with sudo
    Then I verify the `ua-license-check` systemd timer either ran within the past `5` seconds OR is scheduled to run
within `10` minutes
    When I run `systemctl start ua-license-check.service` with sudo
    When I wait `5` seconds
    Then I verify the `ua-license-check` systemd timer is disabled
    Examples: version
      | release |
      | xenial  |
      | bionic  |
      | focal   |
```

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Version 3, 29 June 2007

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This timer is only activated when on a GCP Ubuntu LTS instance that is not
already using Ubuntu Advantage services (via ua-license-check.path).
This timer triggers a service that will poll the metadata for a GCP instance.
If the user has added an Ubuntu Pro license to the instance, it will
activate Ubuntu Advantage services.
[Unit]
Description=Timer to poll for Ubuntu Pro licenses (Only enabled on GCP LTS non-pro)

[Timer]
OnCalendar=*:0/5
RandomizedDelaySec=5min
OnStartupSec=2min
This service is only activated when on a GCP Ubuntu LTS instance that is not
already using Ubuntu Advantage services (via ua-license-check.timer).
This service polls the metadata for a GCP instance. If the user has added an
Ubuntu Pro license to the instance, it will activate Ubuntu Advantage services.
[Unit]
Description=Poll for Ubuntu Pro licenses (Only enabled on GCP LTS non-pro)
After=network.target network-online.target systemd-networkd.service ua-auto-attach.service

[Service]
Type=oneshot
ExecStart=/usr/bin/python3 /usr/lib/ubuntu-advantage/license_check.py
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: ubuntu-advantage-script
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The marker file used here is only created when on a GCP Ubuntu LTS instance
that is not already using Ubuntu Advantage services.
This path triggers a timer that will periodically poll the metadata for a GCP
instance. If the user has added an Ubuntu Pro license to the instance, it will
activate Ubuntu Advantage services.
[Unit]
Description=Trigger to poll for Ubuntu Pro licenses (Only enabled on GCP LTS non-pro)

[Path]
PathExists=/var/lib/ubuntu-advantage/marker-license-check
Unit=ua-license-check.timer

[Install]
WantedBy=multi-user.target

1.862 dnsmasq 2.80-1.1ubuntu1.5

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1.864 libvirt-daemon-driver-storage-rbd 6.0.0-0ubuntu8.16

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the work with the complete corresponding
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1.874 e2fsprogs 1.45.5-2ubuntu1.1

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were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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#
This is a Makefile stub which handles the creation of BSD shared
libraries.
#
In order to use this stub, the following makefile variables must be defined.
#
BSDLIB_VERSION = 1.0
BSDLIB_IMAGE = libce
BSDLIB_MYDIR = et
BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

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

image:  $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

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

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This is the Debian GNU/Linux prepackaged version of the translation files of the EXT2 file system utilities. The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Index: tdbsa/tdb.c
===
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
-   Unix SMB/CIFS implementation.
+   trivial database library - standalone version

-   trivial database library - private includes
-
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Gadi Oxman, August 1995

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```

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

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Theodore Ts'o
23-June-2007

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system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
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with the Library, with the complete machine-readable "work that
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1.876 linux-kernel 5.4.0-115-generic

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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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```

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*
* M. Welsh, 6 July 1996
*
*
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The End

1.882 golang 1.14.3

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1.883 libqmi 1.30.4-1~ubuntu20.04.1

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1.884 zlib 1.2.11

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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The data format used by the zlib library is described by RFCs (Request for
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(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

1.885 x-crypto 0.0.0-20220722155217-630584e8d5aa

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#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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Python was created in the early 1990s by Guido van Rossum at Stichting
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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
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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
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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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1.900 idna 14.0.0

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1.901 gopkg.in-yaml 2.4.0

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1.902 idna 3.3

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1.903 charset-normalizer 2.0.12

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1.904 python-certifi 2021.10.08

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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:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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1.905 ldap 2.9.1

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1.906 pycparser 2.21

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pycparser -- A C parser in Python

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1.907 zipp 3.7.0

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1.908 pep517 0.8.2

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1.909 oauthlib 3.2.0

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1.910 colorama 0.4.3

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1.916 multidict 6.0.2

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1.921 importlib-metadata 4.11.3

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Name: httplib2
Version: 0.14.0
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Home-page: https://github.com/httplib2/httplib2
Author: Joe Gregorio
Author-email: joe@bitworking.org
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HTTPS support is only available if the socket module was compiled with SSL support.

Keep-Alive
Supports HTTP 1.1 Keep-Alive, keeping the socket open and performing multiple requests over the same connection if possible.

Authentication
The following three types of HTTP Authentication are supported. These can be used over both HTTP and HTTPS.

* Digest
* Basic
* WSSE

Caching

The module
can optionally operate with a private cache that understands the Cache-Control:
header and uses both the ETag and Last-Modified cache validators. Both file system
and memcached based caches are supported.

All Methods
The module can handle any HTTP request method, not just GET and POST.

Redirects
Automatically follows 3XX redirects on GETs.

Compression
Handles both 'deflate' and 'gzip' types of compression.

Lost update support
Automatically adds back ETags into PUT requests to resources we have already cached. This implements Section 3.2 of Detecting the Lost Update Problem Using Unreserved Checkout

Unit Tested
A large and growing set of unit tests.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Environment :: Web Environment
Classifier:
Intended Audience :: Developers
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Classifier: Programming Language :: Python :: 2
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1.923 sqlite 3.31.1-4ubuntu0.4

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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.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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1.925 twisted 18.9.0-11ubuntu0.20.04.2

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1.927 x-net 0.0.0-20220728030405-41545e8bf201

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1.928 linux-image-5.4.0-126-generic 5.4.0-126.142

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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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```
/* 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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```
/* 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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/* 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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1.933 linux-kernel 5.4.0-126-generic

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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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*   Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/

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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.

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the

object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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directing the user to the copy of this License. Also, you must do one
of these things:

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

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in 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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4. You may copy and distribute the Library (or a portion or
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it with the complete corresponding machine-readable source code, which
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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
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==========

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David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
2 November 2007

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```
Index: debug.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
void X86EMU_trace_regs (void)
{
   if (DEBUG_TRACE()) {
-       x86emu_dump_regs();
+ if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+        x86emu_dump_xregs();
+ } else {
+        x86emu_dump_regs();
+ }
   }
   if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
      printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
   for (i=0; i< M.x86.enc_pos; i++) {
      sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
   }
-   printk("%-20s",buf1);
+    printk("%-20s ",buf1);
}

static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file:
 /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3
@@ -149,8 +149,69 @@
   target += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", target);
```

```
   TRACE_AND_STEP();
-    if (cond)
+    if (cond) {
       M.x86.R_IP = (u16)target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+    }
+    DECODE_CLEAR_SEGOVR();
+    END_OF_INSTR();
+}
+
+/****************************************************************************
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+****************************************************************************/
+s32 x86emu_bswap(s32 reg)
+{
+   // perform the byte swap
+   s32 temp = reg;
+   reg = (temp & 0xFF000000) >> 24;
+   reg |= (temp & 0xFF0000) >> 8;
+   reg |= (temp & 0xFF00) << 8;
+   reg |= (temp & 0xFF) << 24;
+   return reg;
+}
+
+void x86emuOp2_bswap(u8 op2)
+{
+
    /* byte swap 32 bit register */
+    START_OF_INSTR();
+    DECODE_PRINTF("BSWAP\t");
+    switch (op2) {
+      case 0xc8:
+        DECODE_PRINTF("EAX\n");
+        M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+        break;
+      case 0xc9:
+        DECODE_PRINTF("ECX\n");
+        M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+        break;
+      case 0xca:
+        DECODE_PRINTF("EDX\n");
+        M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+        break;
+      case 0xcb:
+        DECODE_PRINTF("EBX\n");
+        M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+        break;
```

```
+      case 0xcc:
+        DECODE_PRINTF("ESP\n");
+        M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+        break;
+      case 0xcd:
+        DECODE_PRINTF("EBP\n");
+        M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+        break;
+      case 0xce:
+        DECODE_PRINTF("ESI\n");
+        M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+        break;
+      case 0xcf:
+        DECODE_PRINTF("EDI\n");
+        M.x86.R_EDI
 = x86emu_bswap(M.x86.R_EDI);
+        break;
+    }
+    TRACE_AND_STEP();
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -1702,14 +1763,14 @@
/*  0xc5 */ x86emuOp2_illegal_op,
/*  0xc6 */ x86emuOp2_illegal_op,
/*  0xc7 */ x86emuOp2_illegal_op,
-/*  0xc8 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xc9 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xca */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcb */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcc */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcd */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xce */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcf */ x86emuOp2_illegal_op,  /* TODO: bswap */
+/*  0xc8 */ x86emuOp2_bswap,
+/*  0xc9 */ x86emuOp2_bswap,
+/*  0xca */ x86emuOp2_bswap,
+/*  0xcb */ x86emuOp2_bswap,
+/*  0xcc */ x86emuOp2_bswap,
+/*  0xcd */ x86emuOp2_bswap,
+/*  0xce */ x86emuOp2_bswap,
+/*  0xcf */ x86emuOp2_bswap,

/*  0xd0 */ x86emuOp2_illegal_op,
/*  0xd1 */ x86emuOp2_illegal_op,
Index:
 ops.c
===================================================================
```

```
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops.c 20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
   imm = (s8)fetch_byte_imm();
   DECODE_PRINTF2("PUSH\t%d\n", imm);
   TRACE_AND_STEP();
-   push_word(imm);
+    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+       push_long(imm);
+    } else {
+       push_word(imm);
+    }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
   target = (u16)(M.x86.R_IP + (s16)offset);
   DECODE_PRINTF2("%x\n", target);
   TRACE_AND_STEP();
-   if (cond)
+    if (cond) {
       M.x86.R_IP = target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+    }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE))
 {
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
       M.x86.R_CX = 0;
+if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   }
   while (count--) {
@@ -2526,6 +2534,8 @@
       store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
       M.x86.R_SI += inc;
```

```
       M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2559,9 +2569,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode
 & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
       M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2574,6 +2586,8 @@
       }
       M.x86.R_SI += inc;
       M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2598,16 +2612,21 @@

    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* REPE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          val1 = fetch_data_byte(M.x86.R_SI);
          val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_byte(val1, val2);
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+
            M.x86.R_ECX -= 1;
+           else
+               M.x86.R_CX -= 1;
          M.x86.R_SI += inc;
```

```
          M.x86.R_DI += inc;
          if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
          if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+           if (M.x86.intr & INTR_HALTED)
+              break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2644,8 +2663,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* REPE  */
-        /* move them until CX is ZERO. */
-        while (M.x86.R_CX != 0) {
+        /* move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          if (M.x86.mode & SYSMODE_PREFIX_DATA) {
             val1 = fetch_data_long(M.x86.R_SI);
             val2 = fetch_data_long_abs(M.x86.R_ES,
 M.x86.R_DI);
@@ -2655,11 +2674,16 @@
             val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
             cmp_word((u16)val1, (u16)val2);
          }
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+          else
+             M.x86.R_CX -= 1;
          M.x86.R_SI += inc;
          M.x86.R_DI += inc;
          if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
          if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+          if (M.x86.intr & INTR_HALTED)
+             break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2741,11 +2765,16 @@
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        while (M.x86.R_CX != 0) {
+        /*
 move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
```

```
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+          else
+             M.x86.R_CX -= 1;
          M.x86.R_DI += inc;
+          if (M.x86.intr & INTR_HALTED)
+             break;
       }
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2783,9 +2812,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
       M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+          M.x86.R_ECX = 0;

      M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2795,6 +2826,8 @@
          store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
       }
       M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+          break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2817,11 +2850,16 @@
       inc = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+          else
```

```
+              M.x86.R_CX -= 1;
          M.x86.R_SI += inc;
+           if (M.x86.intr & INTR_HALTED)
+
              break;
       }
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   } else {
@@ -2859,9 +2897,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
-      /* move them until CX is ZERO. */
-      count = M.x86.R_CX;
+      /* move them until (E)CX is ZERO. */
+      count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
       M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   }
   while (count--) {
@@ -2871,6 +2911,8 @@
          M.x86.R_AX = fetch_data_word(M.x86.R_SI);
       }
       M.x86.R_SI += inc;
+      if (M.x86.intr & INTR_HALTED)
+          break;
   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -2894,26 +2936,36 @@
       inc = 1;
   if (M.x86.mode & SYSMODE_PREFIX_REPE) {
      /*
 REPE  */
-      /* move them until CX is ZERO. */
-      while (M.x86.R_CX != 0) {
+      /* move them until (E)CX is ZERO. */
+      while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
         val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
         cmp_byte(M.x86.R_AL, val2);
-         M.x86.R_CX -= 1;
+         if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+         else
+             M.x86.R_CX -= 1;
         M.x86.R_DI += inc;
```

```
          if (ACCESS_FLAG(F_ZF) == 0)
             break;
+          if (M.x86.intr & INTR_HALTED)
+             break;
       }
       M.x86.mode &= ~SYSMODE_PREFIX_REPE;
    } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
       /* REPNE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {

         val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
         cmp_byte(M.x86.R_AL, val2);
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+          else
+             M.x86.R_CX -= 1;
          M.x86.R_DI += inc;
          if (ACCESS_FLAG(F_ZF))
             break;          /* zero flag set means equal */
+          if (M.x86.intr & INTR_HALTED)
+             break;
       }
       M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
    } else {
@@ -2951,8 +3003,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
       /* REPE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          if (M.x86.mode & SYSMODE_PREFIX_DATA) {
             val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
             cmp_long(M.x86.R_EAX,
 val);
@@ -2960,16 +3012,21 @@
             val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
             cmp_word(M.x86.R_AX, (u16)val);
          }
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+          else
```

```
+               M.x86.R_CX -= 1;
          M.x86.R_DI += inc;
          if (ACCESS_FLAG(F_ZF) == 0)
             break;
+          if (M.x86.intr & INTR_HALTED)
+             break;
       }
       M.x86.mode &= ~SYSMODE_PREFIX_REPE;
    } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
       /* REPNE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          if (M.x86.mode & SYSMODE_PREFIX_DATA) {
             val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
             cmp_long(M.x86.R_EAX,
 val);
@@ -2977,10 +3034,15 @@
             val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
             cmp_word(M.x86.R_AX, (u16)val);
          }
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+          else
+             M.x86.R_CX -= 1;
          M.x86.R_DI += inc;
          if (ACCESS_FLAG(F_ZF))
             break;         /* zero flag set means equal */
+          if (M.x86.intr & INTR_HALTED)
+             break;
       }
       M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
    } else {
@@ -3238,9 +3300,9 @@
    DECODE_PRINTF("RET\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3254,9 +3316,9
```

```
 @@
{
   START_OF_INSTR();
   DECODE_PRINTF("RET\n");
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
   M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
   DECODE_PRINTF("RETF\t");
   imm = fetch_word_imm();
   DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
   M.x86.R_IP = pop_word();
   M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
   M.x86.R_SP += imm;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
   START_OF_INSTR();
   DECODE_PRINTF("RETF\n");
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
   M.x86.R_IP = pop_word();
   M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
   DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF))      /* CX != 0 and !ZF */
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and !ZF */
       M.x86.R_IP = ip;
```

```
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -4041,8 +4106,11 @@
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF))       /* CX != 0 and ZF */
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and ZF */
       M.x86.R_IP = ip;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -4062,8 +4130,11 @@
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0)
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)      /* (E)CX != 0 */
       M.x86.R_IP = ip;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -4085,8 +4156,10 @@
   target = (u16)(M.x86.R_IP + offset);
   DECODE_PRINTF2("%x\n", target);
   TRACE_AND_STEP();
-   if (M.x86.R_CX == 0)
+   if (M.x86.R_CX == 0) {
       M.x86.R_IP = target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
   ip = (s16)fetch_word_imm();
   ip += (s16)M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
+   JMP_TRACE(M.x86.saved_cs,
```

```
 M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
   TRACE_AND_STEP();
   M.x86.R_IP = (u16)ip;
   DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
   cs = fetch_word_imm();
   DECODE_PRINTF2("%04x:", cs);
   DECODE_PRINTF2("%04x\n", ip);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
   TRACE_AND_STEP();
   M.x86.R_IP = ip;
   M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
   offset = (s8)fetch_byte_imm();
   target = (u16)(M.x86.R_IP + offset);
   DECODE_PRINTF2("%x\n", target);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
   TRACE_AND_STEP();
   M.x86.R_IP = target;
   DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
   DECODE_PRINTF("REPNE\n");
   TRACE_AND_STEP();
   M.x86.mode |= SYSMODE_PREFIX_REPNE;
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.mode |= SYSMODE_32BIT_REP;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
   DECODE_PRINTF("REPE\n");
   TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPE;
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.mode |= SYSMODE_32BIT_REP;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
           break;
       case 4:       /* jmp word ptr ... */
           destval = fetch_data_word(destoffset);
+            JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
           TRACE_AND_STEP();
           M.x86.R_IP = destval;
           break;
       case 5:       /* jmp far ptr ... */
           destval = fetch_data_word(destoffset);
```

```
          destval2 = fetch_data_word(destoffset + 2);
+           JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
          TRACE_AND_STEP();
          M.x86.R_IP = destval;
          M.x86.R_CS = destval2;
Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision
 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ prim_ops.c 16 Jan 2008 14:18:15 -0000 1.3
@@ -1921,7 +1921,7 @@
void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
#ifdef  __HAS_LONG_LONG__
-    s64 res = (s64)d * (s64)s;
+    s64 res = (s64)(s32)d * (s64)(s32)s;

    *res_lo = (u32)res;
    *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
void mul_long(u32 s)
{
#ifdef  __HAS_LONG_LONG__
-    u64 res = (u32)M.x86.R_EAX * (u32)s;
+    u64 res = (u64)M.x86.R_EAX * s;

    M.x86.R_EAX = (u32)res;
    M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* in until CX is ZERO. */
-        u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+        /* in until (E)CX is ZERO. */
+        u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
                     M.x86.R_ECX : M.x86.R_CX);
-
         while (count--) {
          single_in(size);
          M.x86.R_DI += inc;
          }
        M.x86.R_CX = 0;
-        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
```

```
+       if (M.x86.mode & SYSMODE_32BIT_REP) {
          M.x86.R_ECX = 0;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* out until CX is ZERO. */
-       u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+       /* out until (E)CX is ZERO. */
+       u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
                M.x86.R_ECX : M.x86.R_CX);
        while (count--) {
          single_out(size);
          M.x86.R_SI += inc;
          }
        M.x86.R_CX = 0;
-       if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+       if (M.x86.mode & SYSMODE_32BIT_REP) {
          M.x86.R_ECX = 0;
        }
        M.x86.mode
 &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c 7 Sep 2007 10:01:21 -0000 1.1
+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2
@@ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
-#endif

#ifdef IN_MODULE
#include "xf86_ansic.h"
@@ -220,7 +215,7 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("inb %#04x \n", addr);)
```

```
- return inb(addr);
+ return 0;
}

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

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

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

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

@@ -295,7 +288,6 @@
 DB(if (DEBUG_IO_TRACE())
       printk("outl %#08x -> %#04x \n", val, addr);)

- outl(val, addr);
 return;
}

@@ -405,6 +397,6 @@
```

```
void X86EMU_setMemBase(void *base, size_t size)
{
- M.mem_base = (int) base;
+ M.mem_base = (unsigned long) base;
 M.mem_size = size;
}
Index: include/x86emu/debug.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h 7
 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/debug.h 20 Mar 2008 15:25:27 -0000 1.4
@@ -40,8 +40,6 @@
#ifndef __X86EMU_DEBUG_H
#define __X86EMU_DEBUG_H

-//#define DEBUG 0
-#undef DEBUG
/*---------------------- Macros and type definitions ----------------------*/

/* checks to be enabled for "runtime" */
@@ -78,6 +76,8 @@
# define DEBUG_SYSINT()        (M.x86.debug & DEBUG_SYSINT_F)
# define DEBUG_TRACECALL()     (M.x86.debug & DEBUG_TRACECALL_F)
# define DEBUG_TRACECALLREGS()  (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+# define DEBUG_TRACEJMP()      (M.x86.debug & DEBUG_TRACEJMP_F)
+# define DEBUG_TRACEJMPREGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
# define DEBUG_SYS()           (M.x86.debug & DEBUG_SYS_F)
# define DEBUG_MEM_TRACE()     (M.x86.debug & DEBUG_MEM_TRACE_F)
# define DEBUG_IO_TRACE()      (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
# define DEBUG_SYSINT()        0
# define DEBUG_TRACECALL()     0
# define DEBUG_TRACECALLREGS()  0
+# define DEBUG_TRACEJMP()
      0
+# define DEBUG_TRACEJMPREGS()   0
# define DEBUG_SYS()           0
# define DEBUG_MEM_TRACE()     0
# define DEBUG_IO_TRACE()      0
@@ -169,14 +171,20 @@
  x86emu_dump_regs();                             \
 if (DEBUG_TRACECALL())                                  \
  printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);
```

```
-# define RETURN_TRACE(n,u,v)                           \
+# define RETURN_TRACE(u,v,w,x,s)                       \
 if (DEBUG_TRACECALLREGS())        \
  x86emu_dump_regs();                          \
 if (DEBUG_TRACECALL())                        \
-  printk("%04x:%04x: %s\n",u,v,n);
+  printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+# define  JMP_TRACE(u,v,w,x,s)                        \
+   if (DEBUG_TRACEJMPREGS()) \
+      x86emu_dump_regs(); \
+   if (DEBUG_TRACEJMP()) \
+      printk("%04x:%04x: JMP %s%04x:%04x\n", u , v, s, w, x);
#else
# define CALL_TRACE(u,v,w,x,s)
-#
 define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define  JMP_TRACE(u,v,w,x,s)
#endif

#ifdef DEBUG
Index: include/x86emu/regs.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE    0x00000100
#define SYSMODE_PREFIX_DATA     0x00000200
#define SYSMODE_PREFIX_ADDR     0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP       0x00000800
#define SYSMODE_INTR_PENDING    0x10000000
#define SYSMODE_EXTRN_INTR      0x20000000
#define SYSMODE_HALTED          0x40000000
@@ -250,7 +253,8 @@
       SYSMODE_SEGOVR_GS     | \
      SYSMODE_SEGOVR_SS     | \
      SYSMODE_PREFIX_DATA    | \
-      SYSMODE_PREFIX_ADDR)
+      SYSMODE_PREFIX_ADDR    | \
+      SYSMODE_32BIT_REP)

#define  INTR_SYNCH          0x1
```

```
#define  INTR_ASYNCH         0x2
@@ -274,9 +278,9 @@
     */
    u32                     mode;
    volatile int              intr;   /* mask of pending interrupts */
- int                     debug;
+    volatile int                      debug;
#ifdef DEBUG
- int                     check;
+    int                       check;
    u16                     saved_ip;
    u16                     saved_cs;
    int                     enc_pos;
Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21
 -0000 1.1
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+#include <stdio.h>
#define printk printf
#endif

@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F  0x004000
#define DEBUG_DECODE_NOPRINT_F  0x008000
#define DEBUG_SAVE_IP_CS_F      0x010000
+#define DEBUG_TRACEJMP_F        0x020000
+#define DEBUG_TRACEJMP_REGS_F   0x040000
#define DEBUG_SYS_F             (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void  X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
#ifdef  __cplusplus
}                       /* End of "C" linkage for C++    */
#endif
-
#endif /* __X86EMU_X86EMU_H */
```

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John R. Hauser
2018 January 20

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Key Dates
---
* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0

to Version 1.1 to cover open source documentation associated
with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a
backwards compatible extension that adds support for document
files in both source form and compiled form.

References:

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Proposals (RFCs):
https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

TianoCore Bugzilla:
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* April 9, 2019

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2. Your commit message must include your "Signed-off-by" signature,
and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the
contribution is made under the terms of the specified
contribution agreement. Your "Contributed-under" message
must include the name of contribution agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.1
The "TianoCore Contribution Agreement" is included below in
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```
=====================================================
= Change Description / Commit Message / Patch Email =
=====================================================

Your change description should use the standard format for a
commit message, and must include
your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [Repository/Branch PATCH]. The remaining portion of the
```

commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions
for sample patch email ===

* "Repository" is the identifier of the repository the patch applies.
  This identifier should only be provided for repositories other than
  'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is the identifier of the branch the patch applies. This
  identifier should only be provided for branches other than 'edk2/master'.
  For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or
  'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For
  example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or
  'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the
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2. Your commit message must include your "Signed-off-by" signature,
and "Contributed-under"
message.
3. Your "Contributed-under" message explicitly states that the
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must include the name of contribution agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.0

The "TianoCore Contribution Agreement" is included below in
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==========
= Change Description / Commit Message / Patch Email =
==========

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under:
TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [PATCH]. The remaining portion of the commit message
  is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short idenfier for the affected code. For
  example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change.
Each line should be less than ~70 characters.
* "Contributed-under" explicitely states that the contribution is
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Key Dates
---
* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0
to Version 1.1 to cover open source documentation associated

with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a
backwards compatible extension that adds support for document
files in both source form and compiled form.

References:
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Proposals (RFCs):
https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

TianoCore Bugzilla:
https://bugzilla.tianocore.org/show_bug.cgi?id=629

* April 9, 2019

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use in the source control commit log.

2. Your commit message must include your "Signed-off-by" signature,
and "Contributed-under" message.

3. Your "Contributed-under" message
explicitly states that the
contribution is made under the terms of the specified
contribution agreement. Your "Contributed-under" message
must include the name of contribution agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.1
The "TianoCore Contribution Agreement" is included below in
this document.

4. Submit your code to the TianoCore project using the process
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```
=====================================================
= Change Description / Commit Message / Patch Email =
=====================================================

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch
PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [Repository/Branch PATCH]. The remaining portion of the
  commit message is the email's content until the '---' line.
* git format-patch is one way to create this format
```

=== Definitions for sample patch email ===

* "Repository" is the identifier of the repository the patch applies.
  This identifier should only be provided for repositories other than
  'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is
the identifier of the branch the patch applies. This
  identifier should only be provided for branches other than 'edk2/master'.
  For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or
  'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For
  example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or
  'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is
  made under the terms of the contribution agreement. This
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use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature,
and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the
contribution is made under the terms of the specified
contribution agreement. Your "Contributed-under" message
must include the name of contribution
agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.0
The "TianoCore Contribution Agreement" is included below in

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4. Submit your code to the TianoCore project using the process
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```
=====================================================
= Change Description / Commit Message / Patch Email =
=====================================================

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or
attached
```

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [PATCH]. The remaining portion of the commit message
  is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short idenfier for the affected code. For
  example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitely states that the contribution is
  made under the terms of the contribtion agreement. This
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John R. Hauser
2018 January 20

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{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s(\"%s\", %d, %#x)", NULL, NULL
},
{ TARGET_FREEBSD_NR___acl_delete_fd,
 "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_file, "__acl_delete_file", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_link, "__acl_delete_link", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_file, "__acl_get_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_link, "__acl_get_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR___acl_set_link, "__acl_set_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___sysctl, "__sysctl", NULL, print_sysctl, NULL },
{ TARGET_FREEBSD_NR__umtx_op,
 "_umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(\"%s\",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(\"%s\", %d, \"%s\", %d, \"%s\"", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
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},
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},
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{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
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{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd6_mmap,
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{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getitimer, "getitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL },
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{ TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_getsockname, "getsockname", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen,
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{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL
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{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(\"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, \"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\", %d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(\"%s\",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk,
 "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid,
 "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending,
 "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d,
 %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)",
NULL, NULL },
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Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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John R. Hauser
2018 January 20

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1.950 openssh 8.2p1-4ubuntu0.5

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[The licence continues]

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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>
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```

1.951 curl 7.68.0-1ubuntu2.13

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License Mixing
==========

libcurl can be built to use a fair amount of various third party libraries,
libraries that are written and provided by other parties that are distributed
using their own licenses. Even libcurl itself contains code that may cause
problems to some. This document attempts to describe what licenses libcurl and
the other libraries use and what possible dilemmas linking and mixing them all
can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html)
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[exception](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs). This
particular problem
 was addressed when the [Modified BSD
license](https://opensource.org/licenses/BSD-3-Clause) was created, which does
not have the announcement clause that collides with GPL.

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Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is
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OpenSSL

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(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib

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MIT Kerberos

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Heimdal

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

GNU GSS

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OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

1.952 sqlite 3.31.1-4ubuntu0.4

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1.953 gnutls 3.6.13-2ubuntu1.7

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##
Constant-time SSSE3 AES core implementation.
version 0.1

##
By Mike Hamburg (Stanford University), 2009
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Constant-time SSSE3 AES core implementation.
version 0.1
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1.954 dhcp 4.4.1-2.1ubuntu5.20.04.3

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1.955 audit 2.8.5-2ubuntu6

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1.958 pciutils 3.6.4-1ubuntu0.20.04.1

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1.959 libvirt 6.0.0-0ubuntu8.16

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Author: Per Bothner

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machine-readable source code, which
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work with the complete corresponding
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1.980 cryptography 2.8

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1.983 pflag 1.0.5

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1.993 fdisk 2.34.0

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the work with the complete corresponding
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