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1.4 libidn 1.33-2.2ubuntu2

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1.6 xmlsec 1.2.28-2

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1.7 libnetfilter-conntrack 1.0.7-2

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 */
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1.11 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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Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA. */

#define SIGSEGV_FAULT_HANDLER_ARGLIST int sig, int code, void *scp, void *addr
#define SIGSEGV_FAULT_ADDRESS addr

1.12 numactl 2.0.12-1

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when it starts in an interactive mode:

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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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The hypothetical commands `show w' and
`show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

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Ty Coon, President of Vice

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consider it more useful to permit linking proprietary applications with the
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1.15 log-rotate 3.14.0-4ubuntu3

1.15.1 Available under license :

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1.16 fonts-ubuntu 0.83-4ubuntu1

1.16.1 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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1.17 open-isns 0.97-3

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1.18 ltrace 0.7.3-6.1ubuntu1

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1.19 dosfs-tools 4.1-2

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1.22 coreutils 8.30-3ubuntu2

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1.23 mtr 0.93-1

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src/arc4random_win.h
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src/getentropy_aix.c
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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
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1.30 python-jsonpatch 1.23-3

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alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

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place (gratis or for a charge), and offer equivalent access to the
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the same way through the same place at no
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1.33 linux-atm 2.5.1-4

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```

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```
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 Ty Coon, President of Vice
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Mark Lord (mlord@pobox.com)

1.35 libxmu 1.1.3-0ubuntu1

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1.36 libsodium 1.0.18-1

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1.37 xauth 1.1-0ubuntu1

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1.38 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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rJ
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1.40 dash 0.5.10.2-6

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1.41 jansson 2.12-1build1

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1.42 make 4.2.1-1.2

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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.

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

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

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

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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:

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facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library,
and explaining
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Appendix: How to Apply These Terms to Your New Libraries

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

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Version 3, 29 June 2007

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

TERMS AND CONDITIONS

0. Definitions.

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

1. Source Code.

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

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

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

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

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

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

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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:

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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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"Installation Information" for a User Product means any methods, procedures, authorization
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If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in
ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

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1.43 sound-theme-freedesktop 0.8-2ubuntu1

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---

tools/shhopt.c, tools/shhopt.h:

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/
Alternate-site: sunsite.unc.edu /pub/Linux/libs
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1.45 libestr 0.1.10-2.1

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1.46 gpm 1.20.7-5

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1.47 libfastjson 0.99.8-2

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1.48 time 1.7-25.1build1

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1.49 libasyncns 0.8-6

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1.50 libxv 1.0.11-1

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1.51 libxtst 1.2.3-1

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1.61 mpdecimal 2.4.2-3

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1.63 gcab 1.4-1

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

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1.69 libusb 1.0.23-2build1

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

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Thus, it is not the intent of this section to claim rights or contest

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

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

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

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

src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c

src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

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

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c

Macro Packages

. The -mdoc macro set, using the BSD license.

tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
tmac/doc-syms
tmac/groff_mdoc.man

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tmac/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
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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

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. The file `tmac/hyphen.cs' contains the same patterns as the file
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1.74 elfutils 0.176-1.1build1

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1.76 dmidecode 3.2-3

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1.84 iw 5.4-1

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1.86 libcanberra 0.30-7ubuntu1

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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

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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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1.87 newt 0.52.21-4ubuntu2

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in the event an application does not supply such function or
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its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires
that any
application-supplied function or table used by this function must
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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1.88 libogg 1.3.4-0ubuntu1

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Subject: Re: Distributing the libogg RFCs in the Debian package
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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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1.94 psmisc 23.3-1

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1.95 man-db 2.9.1-1

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1.103 selinux 3.0-1build2

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GFDL-1.2
GFDL-1.2-only
GFDL-1.2-or-later
GFDL-1.3
GFDL-1.3-only
GFDL-1.3-or-later
GL2PS
GPL-1.0
GPL-1.0+
GPL-1.0-only
GPL-1.0-or-later
GPL-2.0
GPL-2.0+
GPL-2.0-only
GPL-2.0-or-later
GPL-2.0-with-GCC-exception
GPL-2.0-with-autoconf-exception
GPL-2.0-with-bison-exception
GPL-2.0-with-classpath-exception
GPL-2.0-with-font-exception
GPL-3.0
GPL-3.0+
GPL-3.0-only
GPL-3.0-or-later
GPL-3.0-with-GCC-exception
GPL-3.0-with-autoconf-exception
Giftware
Glide
Glulxe
HPND
HPND-sell-variant
HaskellReport
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LGPL-2.0-or-later
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a)
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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
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/do_command.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/user.c
* /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
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* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/env.c
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.\"
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.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
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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.

Found in path(s):
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/INSTALL
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* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
*/

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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please, don't flame me for wanting my work to see a wider distribution.

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
(Berkeley) 12/13/89
.\"

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*
* @(#)bitstring.h 5.2
 (Berkeley) 4/4/90
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* Paul Vixie   <paul@vix.com>   uunet!decwrl!vixie!paul
*/

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* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/pathnames.h
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/externs.h
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.\" */
.\"
.\" $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
.\"

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1.109 libatasmart 0.19-5

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Version 2.1, February 1999

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1.110 lcms 2.9-4

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1.111 libthai 0.1.28-3

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1.119 pango 1.44.7-2ubuntu4

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1.123 incremental 16.10.1-3.2

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1.124 adduser 3.118ubuntu2

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1.125 sensible-utils 0.0.12+nmu1

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1.128 hostname 3.23

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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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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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1.130 sed 4.7-1

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1.131 libffi 3.3-4

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1.136 command-not-found 0.3

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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.

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!

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

1.138 libpwquality 1.4.2-1build1

1.138.1 Available under license :

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1.142 strace 5.5-3ubuntu1

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1.144 libvisual 0.4.0-17

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1.145 nfs-utils 0.25-5.1ubuntu1

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1.146 sharutils 4.15.2-4build1

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the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or

linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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

a) Accompany

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

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

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

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

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

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

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

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

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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1.149 lua 5.2.4-1.1build3

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1.150 atk 2.35.1-1ubuntu2

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 Most GNU software, including some libraries, is covered by the ordinary
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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
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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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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
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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

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

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

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

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

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

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

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

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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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reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
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1.152 lame 3.100-3

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This package was originally made by Stefan Karrmann <S.Karrmann@gmx.net>
on Thu, 31 Aug 2000 22:15:07 +0200.

The current maintainer is Rogrio Brito <rbrito@users.sf.net>.

It was downloaded from the CVS repository at <http://sf.net/projects/lame>.

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1.153 orc 0.4.31-1

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1.154 libxcursor 1.2.0-2

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1.155 colord 1.4.4-2

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1.156 at-spi2-core 2.36.0-2

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1.157 libpciaccess 0.16-0ubuntu1

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1.158 rpcbind 1.2.5-8

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1.159 libvpx 1.8.2-1build1

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1.160 taglib 1.11.1+dfsg.1-0.3ubuntu2

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1.162 libxi 1.7.10-0ubuntu1

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1.164 theora 1.1.1+dfsg.1-15ubuntu2

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fields of use.

This reference implementation is originally derived from the On2 VP3
Codec Software, and the Theora video format is essentially compatible
with the VP3 video format, consisting of a backward-compatible superset.

1.165 libshout 2.4.3-1

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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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1.166 libdv 1.0.0-12

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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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1.167 cdebconf 0.251ubuntu1

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1.168 xkeyboard-config 2.29-2

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1.169 python-requests 2.22.0-2ubuntu1

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1.170 pigz 2.4-1

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```
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  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.
```

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```
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 Ty Coon, President of Vice
```

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1.181 libndp 1.7-0ubuntu1

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

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1.182 appdirs 1.4.3

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1.183 pyasn1 0.4.8

1.183.1 Available under license :

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

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
Classifier: Intended Audience :: System Administrators
Classifier: Intended Audience :: Telecommunications Industry
Classifier: License :: OSI Approved :: BSD License
Classifier: Natural Language :: English
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.4
Classifier:

Programming Language :: Python :: 2.5
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.2
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Topic :: Communications
Classifier: Topic :: Software Development :: Libraries :: Python Modules

Found in path(s):
* /pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/PKG-INFO
* /pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1.egg-info/PKG-INFO
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1.184 toml 0.10.0

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1.186 pyasn1-modules 0.2.1

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1.187 efivar 37-2ubuntu2.2

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Preamble

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

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this
license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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

these things.

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

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

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

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

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

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

License permits more lax criteria for linking other code with the library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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these notices.

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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
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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. Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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

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

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

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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
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components (compiler, kernel, and so
on) of the operating system on
which the executable runs, unless that component itself accompanies
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It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
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use both them and the Library together in an executable that you
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1.188 libvte 0.60.3-0ubuntu1~20.04

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Preamble

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code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
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Our method of protecting your rights has two steps: (1) copyright
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Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that companies distributing free
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we have made it clear that any patent must
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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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1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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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:

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

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

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

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

executable.

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

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

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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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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[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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free software--to make sure the software is free for all its users.

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The

former contains code derived from the library, while the latter only
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The "Library", below, refers to any such software library or work
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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
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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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.

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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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1.190 libffi 3.3-4

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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
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* /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
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.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
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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.

Found in path(s):
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/INSTALL
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.\" */
.\"
.\" $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $

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* I'll try to keep a version up to date. I can be reached as follows:
* Paul Vixie   <paul@vix.com>   uunet!decwrl!vixie!paul
*/

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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please, don't flame me for wanting my work to see a wider distribution.

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 $

Found in path(s):
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1.192 attr 2.4.48-5

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END OF TERMS AND CONDITIONS

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.

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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2 of the License, or
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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'.
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under certain conditions; type `show c' for details.

The hypothetical commands
`show w' and `show c' should show the appropriate
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be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

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

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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Public License instead of this License.

1.196 fakeroot 1.24-1

1.196.1 Available under license :

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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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those activities but
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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

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

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The hypothetical commands `show w' and `show c' should show the appropriate
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1.197 libcroco 0.6.13-1

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

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

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

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

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

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

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

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

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on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or

linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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a) Accompany the work with the complete corresponding

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

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

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b) Give prominent notice with the combined library of the fact
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Appendix: How to Apply These Terms to Your New Libraries

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1.198 lupin 0.57build1

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1.199 gdbm 1.18.1-5

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

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

TERMS AND CONDITIONS

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

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1. Source Code.

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

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

The "System Libraries" of an executable work include anything,
other
than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component

(kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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

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1.200 python-cffi 1.14.0-1build1

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1.201 liblocale-gettext-perl 1.07-4

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1.202 mime-support 3.64ubuntu1

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1.203 bash-completion 2.10-1ubuntu1

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

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

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

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

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

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

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

libraries into non-free programs.

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

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

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

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

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

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

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@enumerate 0
@item
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A ``library'' means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

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.

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

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fee.

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

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

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

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

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

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

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

it.

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

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

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

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

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

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

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

@item
A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or

linked with it, is called a ``work that uses the Library''. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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

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

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

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

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

@item
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
@end enumerate

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

executable.

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

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

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

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

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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page
@subheading How to Apply These Terms to Your New Libraries

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@end

smallexample

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necessary. Here is a sample; alter the names:

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

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

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in new free programs; and that you know you can do these things.

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Finally, any free program is threatened constantly by software
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program will individually obtain patent licenses, in effect making the
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patent must be licensed for everyone's free use or not licensed at all.

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You must cause the modified files to carry prominent notices
stating
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@item
You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

@item
If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide

a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)
@end enumerate

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

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

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring
 the other work under
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@item
You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

@enumerate a
@item
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; or,

@item
Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

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

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or 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 counts
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@page
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1.207 shared-mime-info 1.15-1

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1.208 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

1.209 libtext-charwidth-perl 0.04-10

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1.210 lmdb 0.9.24-1

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1.211 bsdmainutils 11.1.2ubuntu3

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1.212 klibc 2.0.7-1ubuntu5

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100dpi-lutRS19-IL2.bdf 75dpi-lutBS12.bdf 75dpi-lutBS12c.bdf
75dpi-lutBS12-IL2.bdf 75dpi-lutBS14.bdf 75dpi-lutBS14c.bdf
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1.220 lsb 11.1.0ubuntu2

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1.221 wheel 0.34.2-1

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1.222 libxcrypt 4.4.10-10ubuntu4

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1.223 sysv-init 2.96-2.1ubuntu1

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1.224 tcltk-defaults 8.6.9+1

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1.225 jq 1.6-1ubuntu0.20.04.1

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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
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1.228 btrfs-progs 5.4.1-2

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1.229 packagekit 1.1.13-2ubuntu1.1

1.229.1 Available under license :

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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.

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

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

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

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

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the

object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
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modification of the work for the customer's own use and reverse
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You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
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directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany
the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
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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
than the cost of performing this distribution.

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 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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1.233 libgusb 0.3.4-0.1

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a 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

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

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

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

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

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

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly
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1.235 mdadm 4.1-5ubuntu1.2

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1.239 libutempter 1.1.6-4

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based

on the Library (independent
of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

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

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

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

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

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

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

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

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

These requirements apply to the modified work as a whole. If

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

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to distribute software through any other system and a licensee cannot
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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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You should also get your employer (if you work as a programmer) or your
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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 3, 29 June 2007

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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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Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed;
section 10
makes it unnecessary.

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

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

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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

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recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

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

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

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

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

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

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

6. Conveying Non-Source Forms.

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

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

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

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

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

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding

Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and

protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

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1.246 man-pages 5.05-1

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```
#!/bin/sh
#
# 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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1.249 python-distro 1.4.0-1

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the

source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

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

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

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

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1.255 libusbmuxd 2.0.1-2

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(For example, a function in a library to compute square roots has

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

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

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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

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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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1.258 lazr-restfulclient 0.14.2-2build1

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1.260 ppp 2.4.7-2+4.1ubuntu5.1

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rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
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installs one, as long as the modified version is
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1.267 wavpack 5.2.0-1ubuntu0.1

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1.268 python-httplib2 0.14.0-1ubuntu1

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1.269 python-launchpadlib 1.10.13-1

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1.270 libupower 0.99.11-1build2

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1.271 thin-provisioning-tools 0.8.5-4build1

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1.272 python-secretstorage 2.3.1-2ubuntu1

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1.273 wpa 2.9-1ubuntu4.3

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1.274 ubuntu-meta 1.450.2

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1.275 python-jsonpointer 2.0-0ubuntu1

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1.276 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
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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
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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

1.277 lxd-agent-loader 0.4

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Upstream-Name: lxd
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1.278 pyserial 3.4-5.1

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1.279 python-importlib-metadata 1.5.0-1

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1.282 libsmbios 2.4.3-1

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*
* Whom: Steve Mertz <steve@dragon-ware.com>
* Date: 20010111
* Why: Because I couldn't find one that I liked. So I wrote this one.
*
*/
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1.283 python-attrs 19.3.0-2

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1.285 screen 4.8.0-1ubuntu0.1

1.285.1 Available under license :

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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.
*/
```

1.292 libtasn 4.16.0-2

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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.

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.

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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.

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

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use the Lesser General Public License.

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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

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

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

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

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

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

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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
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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
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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.

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

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

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

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

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

rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

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<program> Copyright (C) <year> <name of author>
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Version 3, 29 June 2007

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other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided
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Defining a subclass of a class defined by the Library is
deemed a mode
of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an
Application with the Library. The particular version of the Library
with which the Combined Work was made is also called the "Linked
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The "Minimal Corresponding Source" for a Combined Work means the
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based on the Application, and not on the Linked Version.

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If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

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structure
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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:

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

Because

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

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

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

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

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"Source code" for a work means the preferred form of the work for

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

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

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

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

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

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

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

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

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

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

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

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

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under the terms of Sections 1 and 2 above provided that you accompany
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
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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.

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

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 To apply these terms, attach the following notices to the library. It is
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Also add information on how to contact you by electronic and paper mail.

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

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

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

That's all there is to it!
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end

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free programs, and that you know you can do these things.

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@enumerate 0

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1.301 landscape-client 19.12-0ubuntu4.2

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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.
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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
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3.1.4	3.1.3	2011	PSF	yes
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1.303 wadllib 1.3.3

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    <dependency>
        <groupId>junit</groupId>
        <artifactId>junit</artifactId>
        <version>4.11</version>
        <scope>test</scope>
    </dependency>

    <dependency>
        <groupId>org.mockito</groupId>
        <artifactId>mockito-all</artifactId>
        <version>1.10.19</version>
        <scope>test</scope>
```

```
    </dependency>

  </dependencies>

</project>
```

Found in path(s):
* /rados-0-2-0-jar-zip/rados-0-2-0-jar/META-INF/maven/com.ceph/rados/pom.xml

1.307 cephfs 2.0.0

1.307.1 Available under license :

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1.308 jsonpatch 1.22

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1.309 unbound 1.9.4-2ubuntu1.2

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1.310 lz4 1.9.2-2ubuntu0.20.04.1

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Source: https://github.com/Cyan4973/lz4

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1.311 python-stdlib-extensions 3.8.10-0ubuntu1~20.04

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* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/grammar.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/pgen.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/parse.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/parse.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/literals.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/__init__.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/literals.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/pgen.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/parse.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/conv.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/grammar.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/literals.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/__init__.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/conv.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/conv.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/grammar.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/pgen.py
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('binary-only', None,
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* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/command/bdist_rpm.py
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* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/spawn.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/spawn.py
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```
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# A grammar to describe tree matching patterns.
# Not shown here:
# - 'TOKEN' stands for any token (leaf node)
# - 'any' stands for any node (leaf or interior)
# With 'any' we can still specify the sub-structure.

# The start symbol is 'Matcher'.

Matcher: Alternatives ENDMARKER

Alternatives: Alternative ('|' Alternative)*

Alternative: (Unit | NegatedUnit)+

Unit: [NAME '='] ( STRING [Repeater]
            | NAME [Details] [Repeater]
            | '(' Alternatives ')' [Repeater]
            | '[' Alternatives ']'
  )

NegatedUnit: 'not' (STRING | NAME [Details] | '(' Alternatives ')')

Repeater: '*' | '+' | '{' NUMBER [',' NUMBER] '}'

Details: '<' Alternatives '>'
```

Found in path(s):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/PatternGrammar.txt
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/PatternGrammar.txt
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/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/PatternGrammar.txt
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* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Modules/_tkinter.c
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* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/driver.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/driver.py
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* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_print.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_apply.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/refactor.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/patcomp.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixer_base.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/patcomp.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_long.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/patcomp.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/tests/test_pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.6/Lib/lib2to3/tests/pytree_idempotency.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_execfile.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_long.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_repr.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_exec.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixer_base.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/refactor.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.7/Lib/lib2to3/tests/pytree_idempotency.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_ne.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_has_key.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_print.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_execfile.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_repr.py

* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixer_base.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_has_key.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_apply.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/refactor.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/tests/test_pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_repr.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_apply.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_long.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_exec.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pytree.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/tests/test_pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_print.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_ne.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.8/Lib/lib2to3/tests/pytree_idempotency.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pygram.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pygram.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_execfile.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_ne.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_has_key.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_exec.py
No license file was found, but licenses were detected in source scan.

file.write('License: %s\n' % self.get_license())

Found in path(s):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/dist.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/dist.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/dist.py
No license file was found, but licenses were detected in source scan.

version.

Found in path(s):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.8/Lib/distutils/command/bdist_wininst.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.8/Lib/distutils/command/bdist_msi.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.6/Lib/distutils/command/bdist_msi.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/cygwinccompiler.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.6/Lib/distutils/command/bdist_wininst.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.7/Lib/distutils/command/bdist_msi.py

* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/command/bdist_wininst.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/cygwinccompiler.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/cygwinccompiler.py
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_standarderror.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_map.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_xrange.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_xrange.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_buffer.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_dict.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_buffer.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_dict.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_standarderror.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_standarderror.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_xrange.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_map.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_types.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_types.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_dict.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_filter.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_filter.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_buffer.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_types.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_filter.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_map.py
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Found in path(s):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/tokenize.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/tokenize.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/tokenize.py

1.312 libxmlb 0.1.15-2ubuntu1~20.04.1

1.312.1 Available under license :

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1.313 python-click 7.0-3

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Metadata-Version: 1.2
Name: Click
Version: 7.0
Summary: Composable command line interface toolkit
Home-page: https://palletsprojects.com/p/click/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets Team
Maintainer-email: contact@palletsprojects.com
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Project-URL: Documentation, https://click.palletsprojects.com/
Project-URL: Code, https://github.com/pallets/click
Project-URL: Issue tracker, https://github.com/pallets/click/issues
Description: \$ 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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* 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

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
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Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming
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Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*

Found in path(s):
* /python-click-7-0-orig-1-tar-gz/Click-7.0/PKG-INFO
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.. code-block:: python

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  @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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1.314 python-pyasn1-modules 0.2.1-0.2build1

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1.315 tmux 3.0a-2ubuntu0.3

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1.317 isc-dhcp 4.4.1-2.1ubuntu5.20.04.2

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1.319 libblockdev 2.23-2ubuntu3

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1.326 nfs-utils 1.3.4-2.5ubuntu3.4

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1.327 networkd-dispatcher 2.1-2~ubuntu20.04.1

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1.328 ssh-import-id 5.10-0ubuntu1

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1.329 policyrcd-script-zg2 0.1-3

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1.330 intltool 0.51.0-5ubuntu1

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1.332 fwupd 1.5.11-0ubuntu1~20.04.2

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1.334 pcre 10.34-7

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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
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Version 3.1, 31 March 2009

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1.339 automake 1.16.1-4ubuntu6

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1.348 pborman-uuid 1.2.1

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1.349 afero 1.0.5

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1.350 blackfriday 2.1.0

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1.351 h2 4.1.0

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1.352 coreos-go-iptables 0.6.0

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1.353 robfig-cron 2.0.0-20150107220207-be2e0b0deed5

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1.354 miekg-dns 1.1.43

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1.355 distro-info-data 0.43ubuntu1.9

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1.357 alsa-ucm-conf 1.2.2-1ubuntu0.11

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1.358 caca 0.99.beta19-2.1ubuntu1.20.04.2

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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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the work with the complete corresponding
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1.359 httprouter 1.3.0

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1.360 tzdata 2021e-0ubuntu0.20.04

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1.361 fvbommel-sortorder 1.0.2

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1.362 apport 2.20.11-0ubuntu27.21

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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 =

## End BSD-specific setup
```

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1.375 python3-cryptography 2.8-3ubuntu0.1

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1.376 libcbor0.6 0.6.0-0ubuntu1

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The End

1.382 tcp-wrappers 7.6.q-30

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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
* Charles Duffy -- original graphviz extension
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 Stefan Seefeld -- toctree improvements
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* Pauli Virtanen -- autodoc improvements, autosummary extension
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* Thomas Waldmann -- apidoc module fixes
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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!

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authors and projects:

* sphinx.util.jsdump uses the basestring encoding from simplejson,
 written by Bob Ippolito, released under the MIT license
* sphinx.util.stemmer was written by Vivake Gupta, placed in the
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Local Variables:
coding: utf-8
fill-column: 70
End:

1.395 nftables 0.1

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1.396 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
```

Found in path(s):
* /cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/throttle.py
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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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* /cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/cobra_types.py
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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}))
```

Found in path(s):
* /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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* /cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/admin.py
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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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* /cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/memory_usage.py
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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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* /cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/djb2_hash.py
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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()
```

Found in path(s):
* /cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/init.py
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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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* /cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/bavarde/runner/bot.py
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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
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```
'''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()
```

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* /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
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'''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

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```
'''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
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```
'''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
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'''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
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```
'''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

1.397 probert 0.0.18build1

1.397.1 Available under license :

```
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```
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```

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References

1. http://www.w3.org/
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8. http://www.keio.ac.jp/
9. file://localhost/home/apharris/debian/sgml-data/IPR-FAQ.html
10. mailto:site-policy@w3.org
11. http://w3.org/Help/Webmaster.html

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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
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1.409 po-debconf 1.0.21

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1.417 pkgbinarymangler 144

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Initial packaging was on Tue, 14 Dec 2004 18:21:49 +0100.

The original source can always be found at:
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1.418 bmake 20181221-2

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Found in path(s):
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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/mkdeps.sh
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*
* from: @(#)make.h 8.3 (Berkeley) 6/13/95
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* $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/mk/gendirdeps.mk
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* /bmake-20181221-orig-tar-gz/bmake/var.c
* /bmake-20181221-orig-tar-gz/bmake/main.c
* /bmake-20181221-orig-tar-gz/bmake/make.c
* /bmake-20181221-orig-tar-gz/bmake/parse.c
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* $Id: pathnames.h,v 1.13 2009/08/26 23:43:42 sjg Exp $
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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/lstPrev.c
* /bmake-20181221-orig-tar-gz/bmake/lst.lib/lstForEachFrom.c
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 /bmake-20181221-orig-tar-gz/bmake/lst.lib/lstDupl.c
* /bmake-20181221-orig-tar-gz/bmake/lst.lib/lstFind.c
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1.419 ninja 1.10.0-1build1

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"union table model" in which elements and attlists common to both
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```
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    <!ENTITY % htmltbl PUBLIC
    "-//OASIS//ELEMENTS DocBook XML HTML Tables V4.3//EN"
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    See the documentation for detailed information on the parameter
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-->

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<!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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   Standards (OASIS).

   $Id: dbnotnx.mod,v 1.31 2005/01/27 13:52:00 nwalsh Exp $

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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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   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 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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* /docbook-xml-4-5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-4.2/dbnotnx.mod
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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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   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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   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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```
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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 ..... -->
<!-- ..... -->

Found in path(s):
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```

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$Id: docbookx.dtd,v 1.12 2000/08/27 15:15:26 nwalsh Exp $

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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 ..... -->

<!-- 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 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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 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 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
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<!-- ..... -->
<!-- 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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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
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```
<!-- ..................................................................... -->
<!-- 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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   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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  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 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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   referencing additional sets of general entities and declaring
```

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* /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 ..... -->

<!-- Copyright 1992-2002 HaL Computer Systems, Inc.,
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Corporation, Norman Walsh, Sun Microsystems, Inc., and the
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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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 V4.2//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.,
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   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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   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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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-->]]>
```

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<!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; [
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<![%ISOamsb.module; [
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<![%ISOamsc.module; [
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<![%ISObox.module; [
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<![%ISOcyr1.module; [
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%ISOnum;
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<![%ISOpub.module;
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<![%ISOtech.module; [
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<!-- 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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-->

<!-- ..... -->

<!-- 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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```

```
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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">
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<!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">
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<!--end of ISOtech.module-->]]>

<!--end of xml.features-->]]>

<![ %ISOamsa.module; [
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<![
 %ISOpub.module; [
%ISOpub;
]]>

<![%ISOtech.module; [
%ISOtech;
]]>

<!-- End of DocBook character entity sets module V4.3 ..... -->
<!-- ..... -->

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<!-- DocBook XML document hierarchy module V4.1.2 ..... -->

```
<!-- File dbhierx.mod ..... -->

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   Corporation, Norman Walsh, and the Organization for the Advancement
   of Structured Information Standards (OASIS).

   $Id: dbhierx.mod,v 1.12 2000/08/27 15:12:42 nwalsh Exp $

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   and its accompanying documentation for any purpose and without fee
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   notice and this paragraph appear in all copies.  The copyright
   holders make no representation about the suitability of the DTD for
   any purpose.  It
 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 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 ..... -->
<!-- ..... -->
```

Found in path(s):
* /docbook-xml-4-5-orig-tar-gz/docbook-xml-4.5.c31424/docbook-4.1.2/dbhierx.mod
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```
<!-- ....................................................................... -->
<!-- DocBook notations module V4.5 ..................................... -->
<!-- File dbnotnx.mod .................................................. -->

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   $Id: dbnotnx.mod 6340 2006-10-03 13:23:24Z nwalsh $

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-->

<!-- ....................................................................... -->

<!-- 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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   $Id: dbcentx.mod,v 1.28 2005/01/27 13:52:00 nwalsh Exp $

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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">
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1.427 juju-environschema 1.0.0

1.427.1 Available under license :

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1.428 wireshark-common 3.2.3-1

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1.430 popt 1.16-14

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Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

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<head></head>
<body>
<h3>
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  </h3>
  <p class="copyright">
    1963, 1964, 1965 Jane Doe
  </p>
  <p class="copyright">
    2018 Joe Blow, John Coe
  </p>
  <p class="copyright">
    1977, 1985 Someone else
  </p>
 </body>
</html>
```

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

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

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

1.435 libuchardet0 0.0.6-3build1

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative

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Otherwise, if the work is a derivative of the Library, you may distribute the object
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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
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the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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 <body>
  <h3>
   Copyright Test
  </h3>
  <p class="copyright">
   1963, 1964, 1965 Jane Doe
  </p>
  <p class="copyright">
   2018 Joe Blow, John Coe
  </p>
  <p class="copyright">
   1977, 1985 Someone else
  </p>
 </body>
</html>
```

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"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
 <title>Copyright Test</title>
 <articleinfo>
   <copyright>
     <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
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     <year>2018</year> <holder>Joe Blow, John Coe</holder>
   </copyright>
   <copyright>
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 </articleinfo>
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////

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

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

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

1.437 fontconfig 2.13.1-2ubuntu3

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1.438 spandsp 0.0.6+dfsg-2

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++++++++++++++++

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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;
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intentionally leaving anyone out.

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

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

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

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this

function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

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

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

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

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

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

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

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

medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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

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<one line to give the library's name and a brief idea of what it does.>
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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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fits its criteria of freedom. The Lesser General
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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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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.
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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

a) Accompany the work with the complete corresponding

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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
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
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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
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e) Verify that the user has already received a copy of these
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reproducing the executable from it. However, as a special exception,
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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
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It may happen that this requirement contradicts the license
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use both them and the Library together in an executable that you
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7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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

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1.441 initramfs-tools 0.136ubuntu6.7

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Thu, 27 Jan 2005 15:23:52 -0500.

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The current ubuntu release can be found at:
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The Debian tree is maintained with "git" at:
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https://anonscm.debian.org/cgit/kernel/initramfs-tools.git

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1.443 eject 2.1.5+deb1+cvs20081104-14

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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.

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

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based

on the Library (independent
of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

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

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

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

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

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

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

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

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

These requirements apply to the modified work as a whole. If

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

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

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

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

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

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to

distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the

copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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

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

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

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

the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

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

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

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
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or rights, from you under this License will not have their licenses
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the Library at all. For example, if a patent
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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
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such claims; this section has the sole purpose of protecting the
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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.

13. The Free Software Foundation may publish revised and/or new
versions of the Library General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

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
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the Free Software Foundation. If the Library does not specify a
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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.>
Copyright (C) <year>
<name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Library General Public
License as published by the Free Software Foundation; either
version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
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You should have received a copy of the GNU Library General Public
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Also add information on how to contact you by electronic and paper mail.

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

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

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

That's all there is to it!

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Version 3, 29 June 2007

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Preamble

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The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to

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

To protect your rights, we need to 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 rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed;
section 10
makes it unnecessary.

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

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

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.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding

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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

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

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

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

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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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1.447 base-files 11ubuntu5.5

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<signature of Ty Coon>, 1 April 1989
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1.451 update-manager 20.04.10.10

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1.454 gtk 3.24.20-0ubuntu1.1

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This option is useful when you wish to copy part of the code of
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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
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5. A program that contains no derivative of any portion of the
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linked with it, is called a "work that uses the Library". Such a
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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
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When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

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

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

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

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

installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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

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

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

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
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That's all there is to it!

1.458 configobj 5.0.6-4

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1.459 pyudev 0.21.0-3ubuntu1

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

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

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

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subsequent copies and derivative works made from that copy.

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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it with the complete corresponding machine-readable source code, which
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If distribution of object code is made by offering access to copy
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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

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1.466 fuse 2.9.9-3

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1.467 cavium-liquidio 3.1.2

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1.469 command-not-found 20.04.6

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1.470 arptables 1.8.4

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1.476 pcre 8.39-12build1

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This is Debian GNU/Linux's prepackaged version of the PCRE regular
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This package was put together by me, Mark Baker <mbaker@iee.org> from the
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PCRE is a library of functions to support regular expressions whose syntax
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Written by: Philip Hazel
Email local part: ph10
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1.477 libarchive 3.4.0-2ubuntu1.2

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1.478 bash 5.0-6ubuntu1.2

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the following sources:

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Mesa 3-D graphics library
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the work with the complete corresponding
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1.483 click 8.1.3

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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
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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

1.484 jinja2 3.1.2

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1.485 distro 1.4.0

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1.492 sbsigntool 0.9.2-2ubuntu1.1

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1.493 rsyslog 8.2001.0-1ubuntu1.3

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<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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This option is useful when you wish to copy part of the code of
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If such an object file uses only numerical parameters, data
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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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 <signature of Ty Coon>, 1 April 1990
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That's all there is to it!

1.499 e2fsprogs 1.45.5-2ubuntu1.1

1.499.1 Available under license :

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

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

 http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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

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

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of: tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.510 rfc3339-validator 0.1.4

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1.511 gstreamer 1.16.3-0ubuntu1.1

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Upstream-Contact: gstreamer-devel@lists.freedesktop.org
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Files: gst/gst.c
gst/gst.h
gst/gst_private.h
gst/gstbin.c

gst/gstbin.h
gst/gstbuffer.c
gst/gstbuffer.h
gst/gstclock.c
gst/gstclock.h
gst/gstcompat.h
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gst/gstelementfactory.c
gst/gstelementfactory.h
gst/gstelementmetadata.h
gst/gstevent.c
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plugins/elements/gstqueue2.h
plugins/elements/gsttee.c
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tests/check/elements/queue2.c
tests/check/gst/gstinfo.c
tests/check/gst/gstparamspecs.c
tests/check/gst/gstregistry.c
tests/check/gst/gsttagsetter.c
tests/check/gst/gsturi.c
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gst/gsttypefind.c
gst/gsttypefind.h
gst/gsttypefindfactory.c
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libs/gst/base/gstbitreader.h
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gst/gstchildproxy.h
gst/gstdebugutils.c
gst/gstdebugutils.h
gst/gstpreset.c
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tests/benchmarks/caps.c
tests/check/gst/gstiterator.c
tests/check/libs/gstnetclientclock.c
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may

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

6. As an exception to the Sections above, you may also combine or
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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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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
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copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user
installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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1.515 six 1.16.0

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1.516 ldap 2.9.1

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1.517 pycparser 2.21

1.517.1 Available under license :

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1.518 futures 3.3.0

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1.519 colorama 0.4.3

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1.520 async-timeout 4.0.2

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1.521 pyyaml 6.0

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1.522 tpm2-tss-tcti 2.3.2-1ubuntu0.20.04.1

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1.523 gir1.2-gdkpixbuf-2.0 2.40.0+dfsg-3ubuntu0.4

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Written by: Philip Hazel
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1.528 attrs 19.3.0-2

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1.529 pcre 8.39-12ubuntu0.1

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1.530 audit 2.8.5-2ubuntu6

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```

```
<xsl:stylesheet version="1.0"
 xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 xmlns:xi="http://www.w3.org/2001/XInclude"
 xmlns:db="http://docbook.org/ns/docbook">

 <xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($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>

<!--
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- Local variables:
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1.534 cattrs 22.2.0

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1.535 bcrypt 4.0.1

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1.536 unzip 6.0-25ubuntu1.1

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FIRST NOTE:
This file contains some details about the copyright history of
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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
copyright conditions of the contributions by Igor Mandrichenko
(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
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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
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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
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  * Portions copyright  1995 Jim Luther
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  *
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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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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)
```

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```
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  * 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

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The following copyright applied to most of the VMS code in vms.c,
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```
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```

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```
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  * Frequently Asked Questions section below, plus one additional
  * condition:  namely, that my name not be removed from the source
  * code.  (Other names may, of course, be added as modifications
  * are made.)  Corporate legal staff (like at IBM :-) ) who have
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```

The following copyright applied to the Windows DLL code (windll/*),
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```
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```

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UnZip,'' distributed with UnZip version 5.3 and later:

```
  * All the source files for Pocket UnZip, except for components
  * 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.

1.537 zlib 1.2.11.dfsg-2ubuntu1.5

1.537.1 Available under license :

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

/* gun.c -- simple gunzip to give an example of the use of inflateBack()
* Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
  Version 1.7 12 August 2012 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c
No license file was found, but licenses were detected in source scan.

/* gzwrite.c -- zlib functions for writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzwrite.c
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/* inffast.h -- header to use inffast.c
* Copyright (C) 1995-2003, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.h
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Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zlib_how.html
No license file was found, but licenses were detected in source scan.

/* unzip.c -- IO for uncompress .zip files using zlib
  Version 1.1, February 14h, 2010
  part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

      Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

      Modifications of Unzip for Zip64
      Copyright (C) 2007-2008 Even Rouault

      Modifications for Zip64 support on both zip and unzip
      Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

      For more info read MiniZip_info.txt

Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of
compatibility with older software. The following is from the original crypt.c.
Code woven in by Terry Thorsen 1/2003.

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(the contents of which are also included in zip.h) for terms of use.
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also may be found at: ftp://ftp.info-zip.org/pub/infozip/license.html

     crypt.c (full version) by Info-ZIP.   Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the
non-echoing password parts) were originally written in Europe. The
whole source package can be freely distributed, including from the USA.
(Prior to January 2000, re-export from the US was a violation of US law.)

     This encryption code is a direct transcription of the algorithm from
Roger Schlafly, described by Phil Katz in the file appnote.txt. This
file (appnote.txt) is distributed with the PKZIP program (even in the

version without encryption capabilities).

Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl_unzGetCurrentFileZStreamPos
2007-2008 - Even Rouault - Decoration of symbol names unz* -> cpl_unz*
2007-2008 - Even Rouault - Remove old C style function prototypes
2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault

Oct-2009 - Mathias Svensson - Removed cpl_* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).
Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G
should only read the compressed/uncompressed size from the Zip64 format if
the size from normal header was 0xFFFFFFFF
Oct-2009 - Mathias Svensson - Applied some bug fixes from paches recived from Gilles Vollant
Oct-2009 - Mathias Svensson - Applied support to unzip files with compression mathod
BZIP2 (bzip2 lib is required)
Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

Copyright (C) 1998 - 2010 Gilles Vollant, Even Rouault, Mathias Svensson

*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c
No license file was found, but licenses were detected in source scan.

For conditions of distribution and use, see copyright notice in zlib.h

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3
No license file was found, but licenses were detected in source scan.

/* inflate.c -- zlib decompression
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c
No license file was found, but licenses were detected in source scan.

/* infback.c -- inflate using a call-back interface
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infback.c
No license file was found, but licenses were detected in source scan.

/* gzlog.h
Copyright (C) 2004, 2008, 2012 Mark Adler, all rights reserved
version 2.2, 14 Aug 2012

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Mark Adler madler@alumni.caltech.edu
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.h

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

/* uncompr.c -- decompress a memory buffer
* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/uncompr.c
No license file was found, but licenses were detected in source scan.

/* inflate.h -- internal inflate state definition
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h
/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.11, January 15th, 2017

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

 The data format used by the zlib library is described by RFCs (Request for
 Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950
 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

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

/* zip.h -- IO on .zip files using zlib
Version 1.1, February 14h, 2010
part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

Modifications for Zip64 support
Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

For more info read MiniZip_info.txt

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Changes

See header of zip.h

*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/zip.h
No license file was found, but licenses were detected in source scan.

/*

* gzlog.c
* Copyright (C) 2004, 2008, 2012, 2016 Mark Adler, all rights reserved
* For conditions of distribution and use, see copyright notice in gzlog.h
* version 2.2, 14 Aug 2012
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.c
No license file was found, but licenses were detected in source scan.

/* gzjoin -- command to join gzip files into one gzip file

Copyright (C) 2004, 2005, 2012 Mark Adler, all rights reserved
version 1.2, 14 Aug 2012

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Mark Adler madler@alumni.caltech.edu
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzjoin.c
No license file was found, but licenses were detected in source scan.

ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is
thread safe. The data format used by the zlib library is described by RFCs
(Request for Comments) 1950 to 1952 in the files
http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and
rfc1952 (gzip format).

All functions of the compression library are documented in the file zlib.h

(volunteer to write man pages welcome, contact zlib@gzip.org). A usage example of the library is given in the file test/example.c which also tests that the library is working correctly. Another example is given in the file test/minigzip.c. The compression library itself is composed of all source files in the root directory.

To compile all files and run the test program, follow the instructions given at the top of Makefile.in. In short "./configure; make test", and if that goes well, "make install" should work
for most flavors of Unix. For Windows, use
one of the special makefiles in win32/ or contrib/vstudio/ . For VMS, use make_vms.com.

Questions about zlib should be sent to <zlib@gzip.org>, or to Gilles Vollant <info@winimage.com> for the Windows DLL version. The zlib home page is http://zlib.net/ . Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ http://zlib.net/zlib_faq.html before asking for help.

Mark Nelson <markn@ieee.org> wrote an article about zlib for the Jan. 1997 issue of Dr. Dobb's Journal; a copy of the article is available at http://marknelson.us/1997/01/01/zlib-engine/ .

The changes made in version 1.2.11 are documented in the file ChangeLog.

Unsupported third party contributions are provided in directory contrib/ .

zlib is available in Java using the java.util.zip package, documented at http://java.sun.com/developer/technicalArticles/Programming/compression/
.

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is available at CPAN (Comprehensive Perl Archive Network) sites, including http://search.cpan.org/~pmqs/IO-Compress-Zlib/ .

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is available in Python 1.5 and later versions, see http://docs.python.org/library/zlib.html .

zlib is built into tcl: http://wiki.tcl.tk/4610 .

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <info@winimage.com>, is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL_FAQ.txt

- For 64-bit Irix, deflate.c must be compiled without any optimization. With
 -O, one libpng test fails. The test works in 32 bit mode (with the -n32
 compiler flag). The compiler bug has been reported to SGI.

- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under
 OSF/1 2.1 it works
 when compiled with cc.

- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is
 necessary to get gzprintf working correctly. This is done by configure.

- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with
 other compilers. Use "make test" to check your compiler.

- gzdopen is not supported on RISCOS or BEOS.

- For PalmOs, see http://palmzlib.sourceforge.net/

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and
zlib specifications were written by L. Peter Deutsch. Thanks to all the
people who reported problems and suggested various improvements in zlib; they
are too numerous to cite here.

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

If you use the zlib library in a product, we would appreciate *not* receiving
lengthy legal documents to sign. The sources are provided for free but without
warranty of any kind. The library has been entirely written by Jean-loup
Gailly and Mark Adler; it does not include
third-party code.

If you redistribute modified sources, we would appreciate that you include in
the file ChangeLog history information documenting your changes. Please read
the FAQ for more information on the distribution of modified source versions.

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README
No license file was found, but licenses were detected in source scan.

/* fitblk.c: example of fitting compressed output to a specified size
Not copyrighted -- provided to the public domain
Version 1.1 25 November 2004 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c
No license file was found, but licenses were detected in source scan.

/* gzread.c -- zlib functions for reading gzip files
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c
No license file was found, but licenses were detected in source scan.

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

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jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950
(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h
No license file was found, but licenses were detected in source scan.

/* inftrees.h -- header to use inftrees.c
* Copyright (C) 1995-2005, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.h
No license file was found, but licenses were detected in source scan.

/* deflate.c -- compress data using the deflation algorithm
* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c
No license file was found, but licenses were detected in source scan.

/* deflate.h -- internal compression state
* Copyright (C) 1995-2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h

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

/* zconf.h -- configuration of the zlib compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein
No license file was found, but licenses were detected in source scan.

/* minigzip.c -- simulate gzip using the zlib compression library
* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c
No license file was found, but licenses were detected in source scan.

/* gzlib.c -- zlib functions common to reading and writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c
No license file was found, but licenses were detected in source scan.

/* infcover.c -- test zlib's inflate routines with full code coverage
* Copyright (C) 2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c
No license file was found, but licenses were detected in source scan.

/* inftrees.c -- generate Huffman trees for efficient decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.c

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

/* zutil.c -- target dependent utility functions for the compression library
* Copyright (C) 1995-2017 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c
No license file was found, but licenses were detected in source scan.

/* example.c -- usage example of the zlib compression library
* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c
No license file was found, but licenses were detected in source scan.

/*
 Additional tools for Minizip
 Code: Xavier Roche '2004
 License: Same as ZLIB (www.gzip.org)
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c
No license file was found, but licenses were detected in source scan.

/* trees.c -- output deflated data using Huffman coding
* Copyright (C) 1995-2017 Jean-loup Gailly
* detect_data_type() function provided freely by Cosmin Truta, 2006
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c
No license file was found, but licenses were detected in source scan.

MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

Introduction

MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant (http://www.winimage.com/zLibDll/minizip.html)

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0.

All possible work was done for compatibility.

Background

When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64
support for unzip.c into minizip for a open source project called gdal (http://www.gdal.org/)

That was used as a starting point. And after that ZIP64 support was added to zip.c
some refactoring and code cleanup was also done.

Changed from MiniZip 1.0 to MiniZip 1.1
---
* Added ZIP64 support for unzip (by Even Rouault)
* Added ZIP64 support for zip (by Mathias Svensson
)
* Reverted some changed that Even Rouault did.
* Bunch of patches received from Gulles Vollant that he received for MiniZip from various users.
* Added unzip patch for BZIP Compression method (patch create by Daniel Borca)
* Added BZIP Compress method for zip
* Did some refactoring and code cleanup

Credits

Gilles Vollant - Original MiniZip author
Even Rouault - ZIP64 unzip Support
Daniel Borca - BZip Compression method support in unzip
Mathias Svensson - ZIP64 zip support
Mathias Svensson - BZip Compression method support in zip

Resources

ZipLayout http://result42.com/projects/ZipFileLayout
Command line tool for Windows that shows the layout and information of the headers in a zip archive.
Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note http://www.pkware.com/documents/casestudies/APPNOTE.TXT
Zip File specification

Notes.
* To be able to use BZip compression method in
 zip64.c or unzip64.c the BZIP2 lib is needed and HAVE_BZIP2 need to be defined.

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Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/MiniZip64_info.txt
No license file was found, but licenses were detected in source scan.

/* compress.c -- compress a memory buffer
* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c
No license file was found, but licenses were detected in source scan.

/* gzclose.c -- zlib gzclose() function
* Copyright (C) 2004, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c
No license file was found, but licenses were detected in source scan.

/* unzip.h -- IO for uncompress .zip files using zlib
  Version 1.1, February 14h, 2010
  part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

Modifications of Unzip for Zip64
Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip
Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

For more info read MiniZip_info.txt

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Changes

See header of unzip64.c

*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.h
No license file was found, but licenses were detected in source scan.

/* zran.c -- example of zlib/gzip stream indexing and random access
* Copyright (C) 2005, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
  Version 1.1 29 Sep 2012 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c
No license file was found, but licenses were detected in source scan.

/* inffast.c -- fast decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c
No license file was found, but licenses were detected in source scan.

/* crc32.c -- compute the CRC-32 of a data stream
* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*
* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
* tables for updating the shift register in one step with three exclusive-ors
* instead of four steps with four exclusive-ors. This results in about a
* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c
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/* adler32.c -- compute the Adler-32 checksum of a data stream
* Copyright (C) 1995-2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c
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/* zutil.h -- internal interface and configuration of the compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h
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/* gzguts.h -- zlib internal header definitions for gz* operations
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h
No license file was found, but licenses were detected in source scan.

/* zpipe.c: example of proper use of zlib's inflate() and deflate()
  Not copyrighted -- provided to the public domain
  Version 1.4 11 December 2005 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zpipe.c
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/* gzappend -- command to append to a gzip file

  Copyright (C) 2003, 2012 Mark Adler, all rights reserved
  version 1.2, 11 Oct 2012

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  Mark Adler   madler@alumni.caltech.edu
*/

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

Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page

http://zlib.net/ which may have more recent information.
The lastest zlib FAQ is at http://zlib.net/zlib_faq.html

1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file win32/DLL_FAQ.txt in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at http://zlib.net/ .

3. Where can I get a Visual Basic interface to zlib?

See

* http://marknelson.us/1997/01/01/zlib-engine/
* win32/DLL_FAQ.txt in the zlib distribution

4. compress() returns Z_BUF_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

5. deflate() or inflate() returns Z_BUF_ERROR.

Before making the call, make sure that avail_in and avail_out are not zero. When setting the parameter flush equal to Z_FINISH, also make sure that avail_out is big enough to allow processing all pending input. Note that a Z_BUF_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z_BUF_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail_out returns with zero. See http://zlib.net/zlib_how.html for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in zlib.h . Examples of zlib usage are in the files test/example.c and test/minigzip.c, with more in examples/ .

7. Why don't you use GNU autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package.
zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib.
Please try to reproduce the problem with a small program and send the
corresponding source to us at zlib@gzip.org . Do not send multi-megabyte
data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

example.o(.text+0x154): undefined reference to `gzputc'

check that you don't have old files libz.* in /usr/lib, /usr/local/lib or
/usr/X11R6/lib. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib
distribution.

12.
Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt
the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

make distclean
./configure
make

14. How do I install a shared zlib library on Unix?

After the above, then:

make install

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can #include <zlib.h>, it's there. The -lz option will probably link to it. You can check the version at the top of zlib.h or with the ZLIB_VERSION symbol defined in zlib.h .

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, jhainley@myndkryme.com.

16.
Can zlib decode Flate data in an Adobe PDF file?

Yes. See http://www.pdflib.com/ . To modify PDF forms, see http://sourceforge.net/projects/acroformtool/ .

17. Why am I getting this "register_frame_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:
symbol __register_frame_info: referenced symbol not found
```

The symbol __register_frame_info is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See http://www.sunfreeware.com for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible
with the gzip format. The gz* functions in
zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using deflateInit2(). You can also request that inflate decode the gzip format using inflateInit2(). Read zlib.h for more details.

21. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's gz* functions use stdio library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's *Init* functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in zlib.h.

23. Is zlib under the GNU license?

No. Please read the license in zlib.h.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the ZLIB_VERSION and ZLIB_VERNUM #defines in zlib.h. In particular, the final version number needs to be changed to "f", and an identification string should be appended to ZLIB_VERSION. Version numbers x.x.x.f are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in zlib.h you should change ZLIB_VERNUM to 0x123f, and ZLIB_VERSION to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in deflate.c and inftrees.c.

For altered source distributions, you should also note the origin and nature of the changes in zlib.h, as well as in ChangeLog and README, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with zlib.h and zconf.h is also a source distribution, and so you should change ZLIB_VERSION and ZLIB_VERNUM and note the origin and nature of the changes

in zlib.h as you would for a full source distribution.

25.
Will zlib work on a big-endian or little-endian architecture, and can I
exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any
data types being limited to 32-bits in length. If you have any
difficulties, please provide a complete problem report to zlib@gzip.org

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than
does PKZIP and zlib. However, you can look in zlib's contrib/blast
directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use
Z_FULL_FLUSH, carefully write all the pending data at those points, and
keep an index of those locations, then you can start decompression at those
points. You have to be
careful to not use Z_FULL_FLUSH too often, since it
can significantly degrade compression. Alternatively, you can scan a
deflate stream once to generate an index, and then use that index for
random access. See examples/zran.c .

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There
were working ports of zlib 1.1.4 to MVS, but those links no longer work.
If you know of recent, successful applications of zlib on these operating
systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to
understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's
contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind
zlib. Look here for some more information:

http://www.gzip.org/#faq11

32. Can zlib work
with greater than 4 GB of data?

Yes. inflate() and deflate() will process any amount of data correctly.
Each call of inflate() or deflate() is limited to input and output chunks
of the maximum value that can be stored in the compiler's "unsigned int"
type, but there is no limit to the number of chunks. Note however that the
strm.total_in and strm_total_out counters may be limited to 4 GB. These
counters are provided as a convenience and are not used internally by
inflate() or deflate(). The application can easily set up its own counters
updated after each call of inflate() or deflate() to count beyond 4 GB.
compress() and uncompress() may be limited to 4 GB, since they operate in a
single call. gzseek() and gztell() may be limited to 4 GB depending on how
zlib is compiled. See the zlibCompileFlags() function in zlib.h.

The word "may" appears several times above since there is a 4 GB limit only
if the compiler's "long" type is
32 bits. If the compiler's "long" type is
64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in gzprintf(). If zlib is
compiled to use sprintf() or vsprintf(), then there is no protection
against a buffer overflow of an 8K string space (or other value as set by
gzbuffer()), other than the caller of gzprintf() assuring that the output
will not exceed 8K. On the other hand, if zlib is compiled to use
snprintf() or vsnprintf(), which should normally be the case, then there is
no vulnerability. The ./configure script will display warnings if an
insecure variation of sprintf() will be used by gzprintf(). Also the
zlibCompileFlags() function will return information on what variant of
sprintf() is used by gzprintf().

If you don't have snprintf() or vsnprintf() and would like one, you can
find a portable implementation here:

http://www.ijs.si/software/snprintf/

Note that you should be using the most recent version of zlib. Versions
1.1.3 and before were subject to a double-free vulnerability, and versions
1.2.1 and 1.2.2 were subject to an access exception when decompressing
invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the java.util.zip package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: http://zlib.net/ .

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always
works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses malloc() by default for allocations, whereas earlier versions used calloc(), which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the comp.compression FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption,
use GnuPG, http://www.gnupg.org/ , which already includes zlib compression. For PKZIP compatible "encryption", look at http://www.info-zip.org/

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate

specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an
unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License.
Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

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* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ

1.538 zlib 1.2.13

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1.539 pyjwt 2.6.0

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1.540 anyio 3.6.2

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1.541 dill 0.3.6

1.541.1 Available under license :

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1.542 d-bus 1.12.16-2ubuntu2.3

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1.544 sqlite 3.31.1-4ubuntu0.5

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1.546 httplib 0.14.0-1ubuntu1

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1.550 multipath-tools 0.8.3-1ubuntu2.1

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1.551 gliderlabs-ssh 0.3.5

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1.552 pathable 0.4.3

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1.555 xorg-randr 1.5.2-0ubuntu1

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1.556 cffi 1.15.1

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1.557 expat 2.2.9-1ubuntu0.6

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1.558 jbig-kit 2.1-3.1ubuntu0.20.04.1

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.559 jsonschema 4.17.3

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1.560 shadow 4.8.1-1ubuntu5.20.04.4

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1.562 yarl 1.8.2

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1.563 python-certifi 2022.12.07

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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:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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```
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  under certain conditions; type `show c' for details.
```

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

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1.567 pyrsistent 0.19.3

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Markus Kuhn -- 2007-05-26 (Unicode 5.0)

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1.573 pythonurllib 1.25.8-2ubuntu0.2

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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]

1.574 libflac 1.3.3-1ubuntu0.1

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>>> freebsd-base64-4.8
>>>
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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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1.578 greenlet 2.0.2

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1.579 fdisk 2.34.0

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@macro copyrightend{}
@end macro

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@comment node-name, next, previous, up
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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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-- Tom St Denis

1.583 python-setuptools 45.2.0-1ubuntu0.1

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same 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

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
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All
 Python releases are Open Source (see http://www.opensource.org for
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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
2.2 and above	2.1.1	2001-now	PSF	yes

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

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

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

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

All
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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
2.2 and above	2.1.1	2001-now	PSF	yes

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==========

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version 0.1
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17 files are included in the source distribution tar. They are used to verify the standard functions of this library. They are mandatory to run `pytest` but not required to make the lib usable after install. They DO NOT guarantee that the detection-coverage will not regress.

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

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

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

All Python releases are Open Source (see http://www.opensource.org for
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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
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Mersenne Twister

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

Before using, initialize the state by using init_genrand(seed)
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http://www.math.keio.ac.jp/matumoto/emt.html
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Sockets

The `socket' module uses the functions, `getaddrinfo', and
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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with python standard

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Python was created in the early 1990s by Guido van Rossum at Stichting
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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
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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 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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1.613 python3-yaml 5.3.1-1ubuntu0.1

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1.615 python-six 1.14.0-2

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==========

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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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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 and above	2.1.1	2001-now	PSF	yes

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

Before using, initialize the state by using init_genrand(seed)
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http://www.math.keio.ac.jp/matumoto/emt.html
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UUencode and UUdecode functions

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

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Python was created in the early 1990s by Guido van Rossum at Stichting
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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
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In May 2000, Guido and the Python core development team moved to
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2.1.1	2.1+2.0.1	2001	PSF	yes
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1.618 go-chi-chi 5.0.8

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1.619 kerberos 1.17-6ubuntu4.3

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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
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lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
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lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
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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1.621 rdma-cm 28.0-1ubuntu1

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1.631 pyopenssl 19.0.0-1build1

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1.632 ubuntu-advantage-tools 27.13.6~20.04.1

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1.634 blinker 1.4+dfsg1-0.3ubuntu1

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1.635 pyudev 0.21.0-3ubuntu1

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1.638 jsonschema-spec 0.1.4

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1.639 networkx 3.1

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1.640 prettytable 3.7.0

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

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Blttermann, Mario
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Kelemen, Gbor
Keeci, Mehmet
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Marchal, Frdric
Margeviius, Algimantas
Maryanov, Pavel
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Nylander, Daniel
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Qun, Trn Ngc
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1.642 alembic 1.10.3

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1.643 httpcore 0.17.0

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1.644 httpx 0.24.0

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1.647 uniseg 0.4.4

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1.648 importlib-metadata 6.5.0

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1.649 protobuf 4.22.3

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This file contains a list of people who have made large contributions
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* Small optimizations to Python serialization.

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* VI syntax highlighting tweaks.
* Fix compiler to not make output executable.

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* Heuristic detection of sub-messages when printing unknown fields in text format.

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* Added @Override annotation to generated Java code where appropriate.

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* Tru64 support.

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* Solaris 10 + Sun Studio fixes.

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* Slicing support for repeated scalar fields for the Python API.

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* MS Visual Studio error format option.
* Detect unordered_map in stl_hash.m4.

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* gzip/zlib I/O support.

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* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
* Added generation of field number constants.

Wink Saville <wink@google.com>

* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>

* Small patch improving performance of in Python serialization.

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* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>

* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

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* HPUX support.

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* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>

* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.

* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>
* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>
* Fixed m4/acx_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xlC compiler build issues
* Added atomicops for AIX (POWER)

Nipunn Koorapati <nipunn1313@gmail.com>
* Provide a type alias field ValueType
on EnumTypeWrapper
* Match service argument names to abstract interface

1.650 libxml2 2.9.10+dfsg-5ubuntu0.20.04.6

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1.651 openssh 8.2p1-4ubuntu0.7

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*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
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1.652 zerolog 1.29.1

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1.655 flask 2.2.5

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3. The extension must use an open source license. The Python web

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Flask leverages Jinja2 as its template engine. You are obviously free to use

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.. currentmodule:: flask

Blog Blueprint
==============

You'll use the same techniques you learned about when writing the
authentication blueprint to write the blog blueprint. The blog should
list all posts, allow logged in users to create posts, and allow the
author of a post to edit or delete it.

As you implement each view, keep the development server running. As you
save your changes, try going to the URL in your browser and testing them
out.

The Blueprint

Define the blueprint and register it in the application factory.

.. code-block:: python
  :caption: ``flaskr/blog.py``

  from flask import (
      Blueprint, flash, g, redirect, render_template, request, url_for
)
  from werkzeug.exceptions import abort

  from flaskr.auth import login_required
  from flaskr.db import get_db

```
bp = Blueprint('blog', __name__)
```

Import and register the blueprint from the factory using
:meth:`app.register_blueprint()
<Flask.register_blueprint>`. Place the
new code at the end of the factory function before returning the app.

```
.. code-block:: python
  :caption: ``flaskr/__init__.py``

  def create_app():
      app = ...
      # existing code omitted

      from . import blog
      app.register_blueprint(blog.bp)
      app.add_url_rule('/', endpoint='index')

      return app
```

Unlike the auth blueprint, the blog blueprint does not have a
``url_prefix``. So the ``index`` view will be at ``/``, the ``create``
view at ``/create``, and so on. The blog is the main feature of Flaskr,
so it makes sense that the blog index will be the main index.

However, the endpoint for the ``index`` view defined below will be
``blog.index``. Some of the authentication views referred to a plain
``index`` endpoint. :meth:`app.add_url_rule() <Flask.add_url_rule>`
associates the endpoint name ``'index'`` with the ``/`` url so that
``url_for('index')`` or ``url_for('blog.index')`` will
both work,
generating the same ``/`` URL either way.

In another application you might give the blog blueprint a
``url_prefix`` and define a separate ``index`` view in the application
factory, similar to the ``hello`` view. Then the ``index`` and
``blog.index`` endpoints and URLs would be different.

Index

The index will show all of the posts, most recent first. A ``JOIN`` is
used so that the author information from the ``user`` table is
available in the result.

```
.. code-block:: python
```

```
  :caption: ``flaskr/blog.py``

  @bp.route('/')
  def index():
      db = get_db()
      posts = db.execute(
          'SELECT p.id, title, body, created, author_id, username'
          ' FROM post p JOIN user u ON p.author_id = u.id'
          ' ORDER BY created DESC'
      ).fetchall()
      return render_template('blog/index.html', posts=posts)

.. code-block:: html+jinja
  :caption: ``flaskr/templates/blog/index.html``

  {% extends 'base.html' %}

  {% block header
 %}
    <h1>{% block title %}Posts{% endblock %}</h1>
    {% if g.user %}
      <a class="action" href="{{ url_for('blog.create') }}">New</a>
    {% endif %}
  {% endblock %}

  {% block content %}
    {% for post in posts %}
      <article class="post">
        <header>
          <div>
            <h1>{{ post['title'] }}</h1>
            <div class="about">by {{ post['username'] }} on {{ post['created'].strftime('%Y-%m-%d') }}</div>
          </div>
          {% if g.user['id'] == post['author_id'] %}
            <a class="action" href="{{ url_for('blog.update', id=post['id']) }}">Edit</a>
          {% endif %}
        </header>
        <p class="body">{{ post['body'] }}</p>
      </article>
      {% if not loop.last %}
        <hr>
      {% endif %}
    {% endfor %}
  {% endblock %}
```

When a user is logged in, the ``header`` block adds a link to the ``create`` view. When the user is the author of a post, they'll see an "Edit" link to the

``update`` view for that post. ``loop.last`` is a
special variable available inside `Jinja for loops`_. It's used to
display a line after each post except the last one, to visually separate
them.

.. _Jinja for loops: https://jinja.palletsprojects.com/templates/#for

Create

The ``create`` view works the same as the auth ``register`` view. Either
the form is displayed, or the posted data is validated and the post is
added to the database or an error is shown.

The ``login_required`` decorator you wrote earlier is used on the blog
views. A user must be logged in to visit these views, otherwise they
will be redirected to the login page.

.. code-block:: python
  :caption: ``flaskr/blog.py``

```
  @bp.route('/create', methods=('GET', 'POST'))
  @login_required
  def create():
      if request.method == 'POST':
          title = request.form['title']
          body = request.form['body']
          error = None

          if not title:
              error = 'Title
 is required.'

          if error is not None:
              flash(error)
          else:
              db = get_db()
              db.execute(
                  'INSERT INTO post (title, body, author_id)'
                  ' VALUES (?, ?, ?)',
                  (title, body, g.user['id'])
              )
              db.commit()
              return redirect(url_for('blog.index'))

      return render_template('blog/create.html')
```

.. code-block:: html+jinja
  :caption: ``flaskr/templates/blog/create.html``

  {% extends 'base.html' %}

  {% block header %}
    <h1>{% block title %}New Post{% endblock %}</h1>
  {% endblock %}

  {% block content %}
    <form method="post">
      <label for="title">Title</label>
      <input name="title" id="title" value="{{ request.form['title'] }}" required>
      <label for="body">Body</label>
      <textarea name="body" id="body">{{ request.form['body'] }}</textarea>
      <input type="submit" value="Save">
    </form>
  {% endblock %}

Update

Both the ``update`` and ``delete`` views will need to fetch a ``post``
by ``id`` and check if the author matches the logged in user. To avoid
duplicating code, you can write a function to get the ``post`` and call
it from each view.

.. code-block:: python
  :caption: ``flaskr/blog.py``

  def get_post(id, check_author=True):
      post = get_db().execute(
          'SELECT p.id, title, body, created, author_id, username'
          ' FROM post p JOIN user u ON p.author_id = u.id'
          ' WHERE p.id = ?',
          (id,)
).fetchone()

      if post is None:
          abort(404, f"Post id {id} doesn't exist.")

      if check_author and post['author_id'] != g.user['id']:
          abort(403)

      return post

:func:`abort` will raise a special exception that returns an HTTP status

code. It takes an optional message to show with the error, otherwise a
default message is used. ``404`` means "Not
 Found", and ``403`` means
"Forbidden". (``401`` means "Unauthorized", but you redirect to the
login page instead of returning that status.)

The ``check_author`` argument is defined so that the function can be
used to get a ``post`` without checking the author. This would be useful
if you wrote a view to show an individual post on a page, where the user
doesn't matter because they're not modifying the post.

.. code-block:: python
  :caption: ``flaskr/blog.py``

  @bp.route('/<int:id>/update', methods=('GET', 'POST'))
  @login_required
  def update(id):
      post = get_post(id)

      if request.method == 'POST':
          title = request.form['title']
          body = request.form['body']
          error = None

          if not title:
              error = 'Title is required.'

          if error is not None:
              flash(error)
          else:
              db = get_db()
              db.execute(
                  'UPDATE post SET title = ?,
 body = ?'
                  ' WHERE id = ?',
                  (title, body, id)
)
              db.commit()
              return redirect(url_for('blog.index'))

      return render_template('blog/update.html', post=post)

Unlike the views you've written so far, the ``update`` function takes
an argument, ``id``. That corresponds to the ``<int:id>`` in the route.
A real URL will look like ``/1/update``. Flask will capture the ``1``,
ensure it's an :class:`int`, and pass it as the ``id`` argument. If you
don't specify ``int:`` and instead do ``<id>``, it will be a string.
To generate a URL to the update page, :func:`url_for` needs to be passed

the ``id`` so it knows what to fill in:
``url_for('blog.update', id=post['id'])``. This is also in the
``index.html`` file above.

The ``create`` and ``update`` views look very similar. The main
difference is that the ``update`` view uses a ``post`` object and an
``UPDATE`` query instead of an ``INSERT``. With some clever
 refactoring,
you could use one view and template for both actions, but for the
tutorial it's clearer to keep them separate.

.. code-block:: html+jinja
   :caption: ``flaskr/templates/blog/update.html``

   {% extends 'base.html' %}

   {% block header %}
     <h1>{% block title %}Edit "{{ post['title'] }}"{% endblock %}</h1>
   {% endblock %}

   {% block content %}
     <form method="post">
       <label for="title">Title</label>
       <input name="title" id="title"
         value="{{ request.form['title'] or post['title'] }}" required>
       <label for="body">Body</label>
       <textarea name="body" id="body">{{ request.form['body'] or post['body'] }}</textarea>
       <input type="submit" value="Save">
     </form>
     <hr>
     <form action="{{ url_for('blog.delete', id=post['id']) }}" method="post">
       <input class="danger" type="submit" value="Delete" onclick="return confirm('Are you sure?');">
     </form>
   {% endblock %}

This template has two forms.
 The first posts the edited data to the
current page (``/<id>/update``). The other form contains only a button
and specifies an ``action`` attribute that posts to the delete view
instead. The button uses some JavaScript to show a confirmation dialog
before submitting.

The pattern ``{{ request.form['title'] or post['title'] }}`` is used to
choose what data appears in the form. When the form hasn't been
submitted, the original ``post`` data appears, but if invalid form data
was posted you want to display that so the user can fix the error, so
``request.form`` is used instead. :data:`request` is another variable
that's automatically available in templates.

Delete

The delete view doesn't have its own template, the delete button is part
of ``update.html`` and posts to the ``/<id>/delete`` URL. Since there
is no template, it will only handle the ``POST`` method and then redirect
to the ``index`` view.

.. code-block:: python
  :caption: ``flaskr/blog.py``

  @bp.route('/<int:id>/delete',
 methods=('POST',))
  @login_required
  def delete(id):
      get_post(id)
      db = get_db()
      db.execute('DELETE FROM post WHERE id = ?', (id,))
      db.commit()
      return redirect(url_for('blog.index'))

Congratulations, you've now finished writing your application! Take some
time to try out everything in the browser. However, there's still more
to do before the project is complete.

Continue to :doc:`install`.

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1.661 x-sys 0.8.0

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1.662 x-net 0.10.0

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1.664 libwebp 0.6.1-2ubuntu0.20.04.2

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1.665 python-requests 2.31.0

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1.666 systemd 245.4-4ubuntu3.22

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1.673 mdlayher-socket 0.4.1

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1.674 golang-glog 1.1.1

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1.675 gopkg.in-yaml.v3 3.0.1

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1.676 python-certifi 2022.12.7

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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:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
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 $

1.677 python3-jwt 1.7.1-2ubuntu2.1

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1.679 dbus-python 1.2.16-1build1

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1.682 python-attr 19.3.0-2

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The End

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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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tomb - support for clean goroutine termination in Go.

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of the particular user or of the way in which the particular user
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procedures, authorization
keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
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part of a transaction in which the right of possession and use of the
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fixed term (regardless of how the transaction is characterized), the
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modified object code on the User Product (for example, the work has
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ROM).

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// -*- Mode: Go; indent-tabs-mode: t -*-

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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/$/,/'
//nolint:deadcode,unused
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",
"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",
"CC-BY-NC-SA-4.0",
"CC-BY-ND-1.0",
"CC-BY-ND-2.0",
"CC-BY-ND-2.5",
"CC-BY-ND-3.0",
"CC-BY-ND-4.0",
"CC-BY-SA-1.0",
"CC-BY-SA-2.0",
"CC-BY-SA-2.0-UK",
"CC-BY-SA-2.5",
"CC-BY-SA-3.0",

"CC-BY-SA-3.0-AT",
"CC-BY-SA-4.0",
"CC-PDDC",
"CDDL-1.0",
"CDDL-1.1",
"CDLA-Permissive-1.0",
"CDLA-Sharing-1.0",
"CECILL-1.0",
"CECILL-1.1",
"CECILL-2.0",
"CECILL-2.1",
"CECILL-B",
"CECILL-C",
"CERN-OHL-1.1",
"CERN-OHL-1.2",
"CERN-OHL-P-2.0",
"CERN-OHL-S-2.0",
"CERN-OHL-W-2.0",
"ClArtistic",
"CNRI-Jython",
"CNRI-Python",
"CNRI-Python-GPL-Compatible",
"Condor-1.1",
"copyleft-next-0.3.0",
"copyleft-next-0.3.1",
"CPAL-1.0",
"CPL-1.0",
"CPOL-1.02",
"Crossword",
"CrystalStacker",
"CUA-OPL-1.0",
"Cube",
"curl",
"D-FSL-1.0",
"diffmark",
"DOC",
"Dotseqn",
"DSDP",
"dvipdfm",
"ECL-1.0",
"ECL-2.0",
"eCos-2.0",
"EFL-1.0",
"EFL-2.0",
"eGenix",
"Entessa",
"EPICS",
"EPL-1.0",

"EPL-2.0",
"ErlPL-1.1",
"etalab-2.0",
"EUDatagrid",
"EUPL-1.0",
"EUPL-1.1",
"EUPL-1.2",
"Eurosym",
"Fair",
"Frameworx-1.0",
"FreeImage",
"FSFAP",
"FSFUL",
"FSFULLR",
"FTL",
"GFDL-1.1",
"GFDL-1.1-invariants-only",
"GFDL-1.1-invariants-or-later",
"GFDL-1.1-no-invariants-only",
"GFDL-1.1-no-invariants-or-later",
"GFDL-1.1-only",
"GFDL-1.1-or-later",
"GFDL-1.2",
"GFDL-1.2-invariants-only",
"GFDL-1.2-invariants-or-later",
"GFDL-1.2-no-invariants-only",
"GFDL-1.2-no-invariants-or-later",
"GFDL-1.2-only",
"GFDL-1.2-or-later",
"GFDL-1.3",
"GFDL-1.3-invariants-only",
"GFDL-1.3-invariants-or-later",
"GFDL-1.3-no-invariants-only",
"GFDL-1.3-no-invariants-or-later",
"GFDL-1.3-only",
"GFDL-1.3-or-later",
"Giftware",
"GL2PS",
"Glide",
"Glulxe",
"GLWTPL",
"gnuplot",
"GPL-1.0",
"GPL-1.0+",
"GPL-1.0-only",
"GPL-1.0-or-later",
"GPL-2.0",
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}

// from
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1.689 libssh 0.9.3-2ubuntu2.3

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1.690 python 3.8.10-0ubuntu1~20.04.8

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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
2.2 and above	2.1.1	2001-now	PSF	yes

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Perl5 Metaconfig Units

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These units are the ones used to build Configure and config_h.SH
in the Perl5 distribution.

metaconfig will first look in its standard locations (specified when you
installed dist). It will then recurse through the 'U' subdirectory
and find any additional "private" units. Private units override
standard ones supplied with metaconfig.

Files in this directory:

README
This file.

Glossary.patch
The standard dist units contain some strings that make pod2man
complain. This patch silences those warnings. As new units are
added and Configure is regenerated, this patch may need more and more
'fuzz' to be applied. It should be freshly regenerated every once
in a while. See also mkgloss.pl

ln-all.pl
Re-generate the all/ folder

mkglossary
A script to regenerate Porting/Glossary. You have to manually
edit
the top of the script to point the location of your metaconfig
units. It is called automatically by 'mksample'. See also mkgloss.pl

mkgloss.pl
A perl script that calls U/mkglossary from the perl source tree, sorts
the list of symbols, and applies the patch mentioned in Glossary.patch.
When called on its own, redirect the output to a temporary file, and
compare that file to Porting/Glossary before applying.

mksample
  A script to regenerate Porting/config.sh and Porting/config.H.
  It also calls mkglossary, if necessary.

Subdirectories:

The units and other related files have been broken up into the following
directories.

a_dvisory/
  These are units that have to go first in the generated config_h.SH.
  A word of explanation: Configure and config_h.SH are generated from 'Units'
  (the *.U files). Files indicate dependencies (using make(1)), and
  Configure is built to follow those dependencies. However, config_h.SH
  is simply built by putting
 all the units in alphabetical order and
  extracting the relevant lines. (This could be fixed, I suppose, but
  it wasn't trivial the one time I looked.)
  The a_dvisory/ directory, then, is a place to put units that need
  to be early in config_h.SH. (Most units are self-contained
  and ought to be able to go anywhere. However, some things, like
  byteorder, need to have the #defines from multiarch available.)

acl/
  This is an old patch to begin to detect and use ACL (access
  control list) file protection schemes.

all/
  A folder that conveniently holds symbolic links to all the modules
  that are used to build the current Configure and config_h.SH.

compline/
  These are similar to the standard units, but I have modified them
  to have a more uniform compile command line, usually using the
  new Compile.U unit. (The ccflags.U unit is perl-specific since it
  mentions -DDEBUGGING and -DPOSIX_SOURCE, but that's the only place
  it is perl-specific.)

dist_patches/
   These are patches to dist that must be applied before it is built
  and installed. I have submitted these for inclusion in the
  regular dist distribution. They have already been applied
  to the ../dist-3.0at70b directory.

ebcdic/
  These are units that had to be specially modified to work under
  either EBCDIC or ASCII.

installdirs/
  These are units to handle perl's installation directories and
  related issues.

modified/
  These are modified versions of the standard units. Also included in
  this directory are new units that are clearly derived from existing
  units. I have submitted these for inclusion in the regular dist
  distribution.

nullified/
  These are null units that replace units in the standard
  distribution. Typically they are there because some part of the
  perl source accidentally uses a symbol that metaconfig thinks means we
  want the corresponding unit.

perl/
  These are specific to perl. Some
 are heavily derived from
  original dist units, and are marked as such. Others are original.

perl_patches/
  These are patches to the perl source. This directory
  should ordinarily be empty, but there may have been drift between
  the standard version of perl and the one associated with these
  units.

protos/
  These are units modified to use the new Hasproto.U or Protochk.U
  units to check for prototypes.

threads/
  These are specific to threading perl.

typedefs/
  These are standard units modified to use the modified Typedef.U
  unit to check for typedefs. (The modified Typdef.U includes a
  function to avoid unnecessary prompts if the typdef being searched
  for exists.)

Where appropriate, I submitted these units for inclusion into the
regular dist distribution. However, since dist is no longer actively
maintained, and the alternative is for *me* to actively maintain it,
the units just sit here.

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If you have any questions about the use of these units or about

the differences between these units and the standard versions, please
feel
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1.692 nghttp2 1.40.0-1ubuntu0.1

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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024

set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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1.693 libtextwrapinperl 0.06-9

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Text::WrapI18N version 0.06
==========================

This is a module which intends to substitute Text::Wrap,
which supports internationalized texts including:
- multibyte encodings such as UTF-8, EUC-JP, EUC-KR, GB2312, and Big5,
- fullwidth characters like east Asian characters which appear in
  UTF-8, EUC-JP, EUC-KR, GB2312, Big5, and so on,
- combining characters like diacritical marks which appear in UTF-8,
  ISO-8859-11 (aka TIS-620), and so on, and
- languages which don't use whitespaces between words, like Chinese
  and Japanese.

The text is to be given in locale encoding, not always in UTF-8.
(Of course locale encoding is UTF-8 in UTF-8 locales.)

$Text::WrapI18N::columns is available like $Text::Wrap::columns.
Also, $Text::WrapI18N::separator is available.

However, $Text::WrapI18N::huge, $Text::WrapI18N::break,
$Text::WrapI18N::tabstop, and $Text::WrapI18N::unexpand are not
available yet.

This
 module is originally written for "debconf", a standard configuration
system of Debian.

Prerequisites

This needs Text::CharWidth module.

Build and Install

Please use standard way to build and install this module:

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

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=head1 NAME

Text::WrapI18N - Line wrapping module with support for multibyte, fullwidth,
and combining characters and languages without whitespaces between words

=head1 SYNOPSIS

```
use Text::WrapI18N qw(wrap $columns);
wrap(firstheader, nextheader, texts);
```

=head1 DESCRIPTION

This module intends to be a better Text::Wrap module.
This module is needed to support multibyte character encodings such
as UTF-8, EUC-JP, EUC-KR, GB2312, and Big5. This module also supports
characters with irregular widths, such as combining characters (which
occupy zero columns on terminal, like diacritical marks in UTF-8) and
fullwidth characters (which occupy two columns on terminal, like most
of east Asian characters). Also, minimal handling of languages which
doesn't use whitespaces between words (like Chinese and Japanese) is
supported.

Like Text::Wrap, hyphenation and "kinsoku" processing are not supported,

to keep simplicity.

I<wrap(firstheader,
 nextheader, texts)> is the main subroutine of
Text::WrapI18N module to execute the line wrapping. Input parameters
and output data emulate Text::Wrap. The texts have to be written in
locale encoding.

=head1 SEE ALSO

locale(5), utf-8(7), charsets(7)

=head1 AUTHOR

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1.694 golang 1.19.10

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1.696 vim 8.1.2269-1ubuntu5.15

1.697 util-linux 2.34-0.1ubuntu9.4

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

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

Although the Lesser General Public License is Less protective of the

users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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"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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is invoked, then you must make a good faith effort to ensure that,
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table, the facility still operates, and performs whatever part of
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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
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be optional: if the application does not supply it, the square
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1.700 glib 2.64.6-1~ubuntu20.04.6

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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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1.701 libcap 2.32-1ubuntu0.1

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<xsl:stylesheet version="1.0"
 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>

<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>

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 - Local variables:
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-->
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  </h3>

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   1977, 1985 Someone else

 </body>
</html>
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xmlns:xi="http://www.w3.org/2001/XInclude">
 <title>Copyright Test</title>
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    <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
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[#mpl]
MPL Support, <boost/mp11/mpl.hpp>
:toc:
:toc-title:
:idprefix:

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

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

1.706 ncurses 6.2-0ubuntu2.1

1.706.1 Available under license :

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-- $Id: COPYING,v 1.9 2020/02/08 13:34:12 tom Exp $
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Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

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

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1.707 python3.8-minimal 3.8.10-0ubuntu1~20.04.8

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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
2.2 and above	2.1.1	2001-now	PSF	yes

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References

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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 */
```

argparse is (c) 2006-2009 Steven J. Bethard <steven.bethard@gmail.com>.

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John R. Hauser
2018 January 20

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Key Dates
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* August 3, 2017

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 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.

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==========
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==========

To make a contribution to a TianoCore project, follow these steps.

1. Create a change description in the format specified below to
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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   not documented, then submit the code on development email list
   for the project.
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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
  agreement is included below in this document.
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or given pursuant to this Agreement, and all documentation and
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Contributions.txt: TianoCore Contribution Agreement 1.0

```
  ======================
  = Code Contributions =
  ======================

  To make a contribution to a TianoCore project, follow these steps.
  1. Create a change description in the format specified below to
     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
     this document.
  4. Submit your code to the TianoCore project using the process
     that the project documents on its web page.  If the process is
     not documented, then submit the code on development email list
     for the project.
  5. It is preferred that contributions are submitted using the same
     copyright license as the base project. When that is not possible,
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     Contributions of code put into the public domain can also be
     accepted.

     Contributions using other licenses might be accepted, but further
     review will be required.

  ======================================================
  = 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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with the TianoCore project.

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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 contribution is
  made under the terms of the contribution agreement. This
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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
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: [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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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
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 "__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 },
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{ 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 },
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{ 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_dup2, "dup2", NULL, NULL, NULL },
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{ 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 },
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{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL,
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{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
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{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
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{ 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 },
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{ TARGET_FREEBSD_NR_getgid, "getgid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },
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{ 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 },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", 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 },
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{ 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 },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s(\"%s\",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", 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_munlockall, "munlockall", NULL, NULL, NULL },
{ 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 },
{ TARGET_FREEBSD_NR_pipe, "pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil,
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{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
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{ 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 },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
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{ 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 },
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{ 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 },
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{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
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{ 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_self, "thr_self", "%s(%#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
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NULL, NULL },
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John R. Hauser
2018 January 20

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1.709 cups 2.3.1-9ubuntu1.4

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usr/sbin/lpc
usr/bin/lpq
usr/bin/lpr
usr/bin/lprm
usr/share/man/man1/lpr.1
usr/share/man/man1/lprm.1

usr/share/man/man1/lpq.1
usr/share/man/man8/lpc.8
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: CUPS
Upstream-Contact: Michael Sweet <msweet@apple.com>
Source: https://www.cups.org/software.html
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Files: *
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Files: config-scripts/cups-gssapi.m4
cups/auth.c
cups/http.c
cups/tls.c
scheduler/auth.c
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1.714 fmt 5.3.0

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

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

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

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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	3.1.1	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
3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
3.2.3	3.2.2	2012	PSF	yes
3.3.0	3.2	2012	PSF	yes

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  * Optimize Java serialization code when writing a small message to a stream.
  * Optimize Java serialization of strings so that UTF-8 encoding happens only
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  * Added CodedInputStream.getTotalBytesRead().
Kacper Kowalik <xarthisius.kk@gmail.com>
  * Fixed m4/acx_pthread.m4 problem for some Linux distributions.
William Orr <will@worrbase.com>
  * Fixed detection of sched_yield on Solaris.
  * Added atomicops for Solaris
Andrew Paprocki <andrew@ishiboo.com>
  * Fixed minor IBM xlC compiler build issues
  * Added atomicops for AIX (POWER)

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1.716 gcc-12 10.3.0-1ubuntu1~20.04

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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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
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Version 2, June 1991

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

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

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

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

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  * Optimize Java serialization of strings so that UTF-8 encoding happens only
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1.718 gcc-11 10.3.0-1ubuntu1~20.04

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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DRuntime: Runtime Library for the D Programming Language
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========

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 for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end smallexample

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Developed by:

LLVM Team

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1.719 libvirt-python 6.1.0

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

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

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

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Mersenne Twister

The `_random' module includes code based on a download from
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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
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Sockets

The `socket' module uses the functions, `getaddrinfo', and
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
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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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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
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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
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
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Mersenne Twister

The `_random' module includes code based on a download from
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A C-program for MT19937, with initialization improved 2002/1/26.
 Coded by Takuji Nishimura and Makoto Matsumoto.

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

The `socket' module uses the functions, `getaddrinfo', and
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- Use binascii module to do the actual line-by-line conversion
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Python was created in the early 1990s by Guido van Rossum at Stichting
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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
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1.6.1	1.6	2001	CNRI	yes (2)
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2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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1.724 shim 1.40.9+15.7-0ubuntu1

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1.725 pyyaml 5.3.1-1ubuntu0.1

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```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*            combined, allow nicstar_free_rx_skb to be called to
*            recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
```

```
*     details.
*
*
*
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*   Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/
```

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1.729 pyhamcrest 1.9.0-3

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1.730 netifaces 0.11.0

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1.731 lazy-object-proxy 1.9.0

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1.732 spew 1.1.1

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1.733 gojsonreference 0.0.0-20180127040603-bd5ef7bd5415

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1.734 psutil 5.9.5

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on: [push, pull_request]
name: bsd-tests
concurrency:
 group: ${{ github.ref }}-${{ github.workflow }}-${{ github.event_name }}-${{ github.ref ==
format('refs/heads/{0}', github.event.repository.default_branch) && github.sha || '' }}
 cancel-in-progress: true
jobs:
 freebsd:
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           pkg install -y gcc python3
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```

```
  steps:
    - uses: actions/checkout@v3
    - name: Run tests
      uses: vmactions/openbsd-vm@v0
      with:
        usesh: true
        prepare: |
          set -e
          pkg_add gcc python3
        run: |
          set -e
          make install-pip
          python3 -m pip install --user setuptools
          make install
          make test
          make test-memleaks
  netbsd:
    runs-on: macos-12
    steps:
    - uses: actions/checkout@v3
    - name: Run tests
      uses: vmactions/netbsd-vm@v0
      with:
        usesh: true
        prepare: |
          set -e
          pkg_add -v pkgin
          pkgin update
          pkgin -y install python311-* py311-setuptools-* gcc12-*
        run: |
          set -e
          make install-pip PYTHON=python3.11
          python3.11 -m pip install --user setuptools
          make install PYTHON=python3.11
          make test PYTHON=python3.11
          make test-memleaks PYTHON=python3.11
```

1.735 cryptography 40.0.2

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1.736 errors 0.9.1

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1.737 simplejson 3.16.0

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1.738 ruamel.yaml 0.17.21

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1.739 hpack 4.0.0

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1.740 connexion 2.14.2

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1.741 sniffio 1.3.0

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1.743 multidict 6.0.4

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1.744 ruamel-yaml-clib 0.2.7

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1.745 idna 3.4

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1.747 cachecontrol 0.12.6

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1.749 go-runewidth 0.0.14

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1.750 sqlx 1.3.5

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1.751 python-certifi 2019.11.28-1

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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 $

1.752 gorilla 1.5.0

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1.753 h11 0.14.0

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1.754 pflag 1.0.5

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1.755 fsnotify 1.5.1

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