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1.357 sysfsutils 2.1.0

1.357.1 Available under license

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1.496.1 Available under license
1.497 go-runewidth 0.0.14
1.497.1 Available under license
1.498 netlink 1.1.0
1.498.1 Available under license
1.499 sshpass 1.05
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1.500 google-golang-org-genproto 0.0.0-20230410155749-daa745c078e1
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1.518 istack-commons 3.0.5
1.518.1 Available under license
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1.520.1 Available under license
1.521 netns 0.0.4
1.521.1 Available under license

1.1 libtomcrypt 1.17

1.1.1 Available under license :

```
# /*
#   * SHA-512
#   * Implementation derived from LibTomCrypt (Tom St Denis)
#   *
#   * LibTomCrypt is a library that provides various cryptographic
#   * algorithms in a highly modular and flexible manner.
#   *
#   * The library is free for all purposes without any express
#   * guarantee it works.
#   *
#   * Tom St Denis, tomstdenis@gmail.com, http://libtomcrypt.org
#   */
```

1.2 grub 0.97

1.2.1 Available under license :

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1.4 xmlrpc-common 3.1.3

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DOCUMENTATION
ROADMAP
==========

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.
Programmer and internal
documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information
can also be found in the JPEG FAQ (Frequently Asked Questions) article. See
ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or
more of the REFERENCES, then looking at the documentation files (in roughly
the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and
decompression. JPEG (pronounced "jay-peg") is a standardized compression
method for full-color and gray-scale images.
JPEG is intended for compressing
"real-world" scenes; line drawings, cartoons and other non-realistic images

are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the
hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments
in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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of any program generated from the IJG code, this does not limit you more than
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The Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub,
ltconfig, ltmain.sh). Another support script, install-sh, is copyright
by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by
patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic
coding cannot
legally be used without obtaining one or more licenses. For this reason,
support for arithmetic coding has been removed from the free JPEG software.
(Since arithmetic coding provides only a marginal gain over the unpatented
Huffman mode, it is unlikely that very many implementations will support it.)
So far as we are aware, there are no patent restrictions on the remaining
code.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support has
been removed altogether, and the GIF writer has been simplified to produce
"uncompressed GIFs". This technique does not use the LZW algorithm; the
resulting GIF files are larger than usual, but are readable by all standard
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REFERENCES
==========

We
highly recommend reading one or more of these references before trying to
understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is
Wallace, Gregory K. "The JPEG Still Picture Compression Standard",

Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.
(Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS

The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of
general information about JPEG. It is updated constantly and therefore is
not included in this distribution. The FAQ is posted every two weeks to
Usenet newsgroups comp.graphics.misc, news.answers, and other groups.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/
and other news.answers
 archive sites, including the official news.answers
archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.
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with body
 send usenet/news.answers/jpeg-faq/part1
 send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE
================

Numerous viewing and image manipulation programs now support JPEG. (Quite a
few of them use this library to do so.) The JPEG FAQ described above lists
some of the more popular free and shareware viewers, and tells where to
obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free
PBMPLUS software, which provides many useful operations on PPM-format image
files. In particular, it can convert PPM images to and from a wide range of
other formats, thus making cjpeg/djpeg considerably more useful. The latest
version is distributed by the NetPBM group, and is available from numerous
sites,
 notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.
Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is;
you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford,
is available from ftp://havefun.stanford.edu/pub/jpeg/. This program
is designed for research and experimentation rather than production use;
it is slower, harder to use, and less portable than the IJG code, but it
is easier to read and modify. Also, the PVRG code supports lossless JPEG,
which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
================

Some JPEG programs produce files that are not compatible with our library.
The root of the problem is that the ISO JPEG committee failed to specify a
concrete file format. Some vendors "filled in the blanks" on their own,
creating proprietary formats that no one else could read.

(For example, none
of the early commercial JPEG implementations for the Macintosh were able to
exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether
SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without
sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.6 xmlrpc-server 3.1.3

1.6.1 Available under license :

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Version 2.0, January 2004

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1.7 gdb 7.3.1

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

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

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

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

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be called something other than 'show w' and 'show c'; they could even be
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You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the 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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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

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

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

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

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

the same as in the ordinary license.

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

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

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

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

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

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A "library" means a collection of software functions and/or data

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

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In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under 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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the terms of Sections 1 and 2 above on a
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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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Appendix: How to Apply These Terms to Your New Libraries

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Version 3, 29 June 2007

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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
Version".

The "Minimal Corresponding Source" for a Combined Work means the
Corresponding Source for the Combined Work, excluding any source code
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convey a covered work under sections 3 and 4 of this License
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Information
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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
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1.8 apache-log4j 1.2.17

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1.9 curl 7.30.0

1.9.1 Available under license :

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==========

libcurl can be built to use a fair amount of various third party libraries,
libraries that are written and provided by other parties that are distributed
using their own licenses. Even libcurl itself contains code that may cause
problems to some. This document attempts to describe what licenses libcurl and
the other libraries use and what possible dilemmas linking and mixing them all
can lead to for end users.

I am not a lawyer and this is not legal advice!

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distributing them as binaries would be to violate the GPL license - unless you
accompany your license with an exception[2]. This particular problem was
addressed when

the Modified BSD license was created, which does not have the announcement clause that collides with GPL.

libcurl http://curl.haxx.se/docs/copyright.html

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OpenSSL http://www.openssl.org/source/license.html

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GnuTLS
http://www.gnutls.org/

(May be used for SSL/TLS support) Uses the LGPL[3] license. If this is a problem for you, consider using OpenSSL instead. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

yassl http://www.yassl.com/

(May be used for SSL/TLS support) Uses the GPL[1] license. If this is a problem for you, consider using OpenSSL or GnuTLS instead.

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axTLS http://axtls.sourceforge.net/

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c-ares http://daniel.haxx.se/projects/c-ares/license.html

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

MIT Kerberos http://web.mit.edu/kerberos/www/dist/

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fbopenssl

(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

libidn http://josefsson.org/libidn/

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OpenLDAP http://www.openldap.org/software/release/license.html

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1.10 csrp 1.0

1.10.1 Available under license :

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1.11 slf4j 1.7.5

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1.12 libtommath 0.42.0

1.12.1 Available under license :

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-- Tom St Denis

1.13 sed 4.2.2

1.13.1 Available under license :

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1.16 bzip2 1.0.6

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bzip2/libbzip2 version 1.0.2 of 30 December 2001

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1.17 libxslt 1.1.28

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1.18 zip 3.0

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1.19 binutils 2.24

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

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

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

However, linking a "work that uses the Library" with the Library

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

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

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

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

6. As an exception to the Sections above, you may also 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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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.20 xmlrpc-client 3.1.3

1.20.1 Available under license :

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1.21 ncurses 5.9

1.21.1 Available under license :

Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

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

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Calling this script install-sh is preferred over install.sh, to prevent
`make' implicit rules from creating a file called install from it
when there is no Makefile.

This script is compatible with the BSD install script, but was written
from scratch. It can only install one file at a time, a restriction
shared with many OS's install programs.

On Debian systems, the complete text of the GNU General
Public License can be found in '/usr/share/common-licenses/GPL-2'

1.22 kmod 18

1.22.1 Available under license :

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Version 2, June 1991

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1.23 libvirt 1.1.2

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Daniel Veillard <veillard@redhat.com>

1.24 fuse 2.8.7

1.24.1 Available under license :

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* configure.ac, Makefile.am: The original versions were derived from the
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 Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
 derived form the ones in the Monotone project, revision
 3a0982da308228d796df35f98d787c5cff2bb5b6.

 Author: Julio Merino <jmmv@NetBSD.org>

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

 Author: Julio Merino <jmmv84@gmail.com>

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

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==========

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

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<!-- $Id: copyright.xsl,v 1.8 2009/07/10 23:47:58 tbox Exp $ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 version="1.0">

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

```
 </xsl:template>

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

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

</xsl:stylesheet>

<!--

 - Local variables:
 - mode: sgml
 - End:
-->
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Source: http://ant.apache.org/
Used By: Xalan's build process: java/build.xml and test/build.xml

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* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/LayoutUtil.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/swing/SwingComponentWrapper.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/swt/MigLayout.java
*
 /miglayout-3-5-5-sources-jar/net/miginfocom/layout/BoundSize.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/ResizeConstraint.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/swt/SwtContainerWrapper.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/demo/SwtDemo.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/ComponentWrapper.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/Grid.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/LC.java
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* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/ConstraintParser.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/UnitConverter.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/swing/SwingContainerWrapper.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/swing/MigLayout.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/UnitValue.java
*
/miglayout-3-5-5-sources-jar/net/miginfocom/layout/ContainerWrapper.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/AC.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/PlatformDefaults.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/IDEUtil.java
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/** Returns the absolute positioning of one or more of the edges. This will be applied last in the layout cycle and will not
  * affect the flow or grid positions. The positioning is relative to the parent and can not (as padding) be used
  * to adjust the edges relative to the old value. May be <code>null</code> and elements may be <code>null</code>.
  * <code>null</code> value(s) for the x2 and y2 will be interpreted as to keep the preferred size and thus the x1
  * and x2 will just absolutely positions the component.
  * <p>
  * Note that {@link #setBoundsInGrid(boolean)} changes the interpretation of thisproperty slightly.
  * <p>
  * For a more thorough explanation of what this constraint does see the white paper or cheat Sheet at www.migcomponents.com.
  * @return The current value as a new array, free to modify.
  */

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*/
/** Returns the gaps as pixel values.
  * @param parent The parent. Used to get the pixel values.
  * @param defGap The default gap to use if there is no gap set on this object (i.e. it is null).
  * @param
 refSize The reference size used to get the pixel sizes.
  * @param before IF it is the gap before rather than the gap after to return.
  * @return The [min,preferred,max] sizes for the specified gap. Uses {@link net.miginfocom.layout.LayoutUtil#NOT_SET}
  * for gap sizes that are <code>null</code>. Returns <code>null</code> if there was no gap specified. A new and free to use array.
  */

Found in path(s):
* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/DimConstraint.java

1.30 mchange-commons-java 0.2.11

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1.31 commons-collections 3.2.2

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1.33 diffutils 3.3

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scriptversion=2012-06-27.10; # UTC

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```
# Make unconditional expansion of undefined variables an error.  This
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set -u
```

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1.34 openssl 1.0.2j

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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
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1.40 utah-parser 1.0.1

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1.41 ntp 4.2.8p10

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Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote <tt>sntp</tt> to comply with NTPv4 specification, <tt>ntpq saveconfig</tt>
William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
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Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
Danny Mayer <mayer@ntp.org>Network I/O, Windows Port, Code Maintenance
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kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
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Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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compiler/cpp/src/platform.h
compiler/cpp/src/thriftl.ll
compiler/cpp/src/thrifty.yy
lib/csharp/src/Protocol/TBinaryProtocol.cs
lib/csharp/src/Protocol/TField.cs
lib/csharp/src/Protocol/TList.cs
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lib/csharp/src/Server/TServer.cs
lib/csharp/src/Server/TSimpleServer.cs
lib/csharp/src/Server/TThreadPoolServer.cs
lib/csharp/src/TApplicationException.cs
lib/csharp/src/Thrift.csproj
lib/csharp/src/Thrift.sln
lib/csharp/src/TProcessor.cs
lib/csharp/src/Transport/TServerSocket.cs
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lib/csharp/src/Transport/TStreamTransport.cs
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lib/csharp/src/Transport/TTransportException.cs
lib/csharp/src/Transport/TTransportFactory.cs
lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs
lib/csharp/ThriftMSBuildTask/ThriftBuild.cs
lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj
lib/rb/lib/thrift.rb
lib/st/README
lib/st/thrift.st
test/OptionalRequiredTest.cpp
test/OptionalRequiredTest.thrift
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1.52 log4j-api 2.11.1

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1.55 hk2-locator 2.5.0

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1.57 hk2-api 2.5.0

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*
* $Id$
*/

#include "db_config.h"

#include
 "db_int.h"
#include "dbinc/blob.h"
#include "dbinc/crypto.h"
#include "dbinc/db_page.h"
#include "dbinc/db_swap.h"
#include "dbinc/btree.h"
#include "dbinc/lock.h"
```

```
#include "dbinc/mp.h"
#include "dbinc/partition.h"
#include "dbinc/fop.h"

static void __bam_init_meta __P((DB *, BTMETA *, db_pgno_t, DB_LSN *));

/*
* __bam_open --
* Open a btree.
*
* PUBLIC: int __bam_open __P((DB *, DB_THREAD_INFO *,
* PUBLIC:      DB_TXN *, const char *, db_pgno_t, u_int32_t));
*/
int
__bam_open(dbp, ip, txn, name, base_pgno, flags)
 DB *dbp;
 DB_THREAD_INFO *ip;
 DB_TXN *txn;
 const char *name;
 db_pgno_t base_pgno;
 u_int32_t flags;
{
 BTREE *t;

 COMPQUIET(name, NULL);
 t = dbp->bt_internal;

 /*
  * We don't permit the user to specify a prefix routine if they didn't
  * also specify a comparison routine, they can't know enough about our
  * comparison routine to get it right.
  */
 if (t->bt_compare == __bam_defcmp && t->bt_prefix != __bam_defpfx)
 {
  __db_errx(dbp->env, DB_STR("1006",
"prefix comparison may not be specified for default comparison routine"));
  return (EINVAL);
 }

 /*
  * Verify that the bt_minkey value specified won't cause the
  * calculation of ovflsize to underflow [#2406] for this pagesize.
  */
 if (B_MINKEY_TO_OVFLSIZE(dbp, t->bt_minkey, dbp->pgsize) >
     B_MINKEY_TO_OVFLSIZE(dbp, DEFMINKEYPAGE, dbp->pgsize)) {
  __db_errx(dbp->env, DB_STR_A("1007",
      "bt_minkey value of %lu too high for page size of %lu",
      "%lu %lu"), (u_long)t->bt_minkey, (u_long)dbp->pgsize);
```

```
 return (EINVAL);
 }

 /* Start up the tree. */
 return (__bam_read_root(dbp, ip, txn, base_pgno, flags));
}

/*
* __bam_metachk --
*
* PUBLIC: int __bam_metachk __P((DB *, const char *, BTMETA *));
*/
int
__bam_metachk(dbp, name, btm)
 DB *dbp;
 const char *name;
 BTMETA *btm;
{
 ENV *env;
 u_int32_t vers;
 int ret;

 env = dbp->env;
 ret = 0;

 /*
  * At this point, all we know
 is that the magic number is for a Btree.
  * Check the version, the database may be out of date.
  */
 vers = btm->dbmeta.version;
 if (F_ISSET(dbp, DB_AM_SWAP))
  M_32_SWAP(vers);
 switch (vers) {
 case 6:
 case 7:
  __db_errx(env, DB_STR_A("1008",
      "%s: btree version %lu requires a version upgrade",
      "%s %lu"), name, (u_long)vers);
  return (DB_OLD_VERSION);
 case 8:
 case 9:
 case 10:
  break;
 default:
  __db_errx(env, DB_STR_A("1009",
      "%s: unsupported btree version: %lu", "%s %lu"),
      name, (u_long)vers);
```

```
 return (EINVAL);
}

/* Swap the page if we need to. */
if (F_ISSET(dbp, DB_AM_SWAP) &&
    (ret = __bam_mswap(env, (PAGE *)btm)) != 0)
 return (ret);

/*
 * Check application info against metadata info, and set info, flags,
 * and type based on metadata info.
 */
if ((ret =
    __db_fchk(env, "DB->open", btm->dbmeta.flags, BTM_MASK)) != 0)
 return (ret);

if (F_ISSET(&btm->dbmeta, BTM_RECNO)) {
 if (dbp->type
== DB_BTREE)
  goto wrong_type;
 dbp->type = DB_RECNO;
 DB_ILLEGAL_METHOD(dbp, DB_OK_RECNO);
} else {
 if (dbp->type == DB_RECNO)
  goto wrong_type;
 dbp->type = DB_BTREE;
 DB_ILLEGAL_METHOD(dbp, DB_OK_BTREE);
}

if (F_ISSET(&btm->dbmeta, BTM_DUP))
 F_SET(dbp, DB_AM_DUP);
else
 if (F_ISSET(dbp, DB_AM_DUP)) {
  __db_errx(env, DB_STR_A("1010",
 "%s: DB_DUP specified to open method but not set in database",
      "%s"), name);
  return (EINVAL);
 }

if (F_ISSET(&btm->dbmeta, BTM_RECNUM)) {
 if (dbp->type != DB_BTREE)
  goto wrong_type;
 F_SET(dbp, DB_AM_RECNUM);

 if ((ret = __db_fcchk(env,
     "DB->open", dbp->flags, DB_AM_DUP, DB_AM_RECNUM)) != 0)
  return (ret);
} else
```

```
 if (F_ISSET(dbp, DB_AM_RECNUM)) {
  __db_errx(env, DB_STR_A("1011",
    "%s: DB_RECNUM specified to open method but not set in database",
     "%s"), name);
  return (EINVAL);
 }

if (F_ISSET(&btm->dbmeta, BTM_FIXEDLEN)) {
 if (dbp->type != DB_RECNO)
  goto
wrong_type;
 F_SET(dbp, DB_AM_FIXEDLEN);
} else
 if (F_ISSET(dbp, DB_AM_FIXEDLEN)) {
  __db_errx(env, DB_STR_A("1012",
"%s: DB_FIXEDLEN specified to open method but not set in database",
  "%s"), name);
  return (EINVAL);
 }

if (F_ISSET(&btm->dbmeta, BTM_RENUMBER)) {
 if (dbp->type != DB_RECNO)
  goto wrong_type;
 F_SET(dbp, DB_AM_RENUMBER);
} else
 if (F_ISSET(dbp, DB_AM_RENUMBER)) {
  __db_errx(env, DB_STR_A("1013",
    "%s: DB_RENUMBER specified to open method but not set in database",
     "%s"), name);
  return (EINVAL);
 }

if (F_ISSET(&btm->dbmeta, BTM_SUBDB))
 F_SET(dbp, DB_AM_SUBDB);
else
 if (F_ISSET(dbp, DB_AM_SUBDB)) {
  __db_errx(env, DB_STR_A("1014",
    "%s: multiple databases specified but not supported by file",
     "%s"), name);
  return (EINVAL);
 }

if (F_ISSET(&btm->dbmeta, BTM_DUPSORT)) {
 if (dbp->dup_compare == NULL)
  dbp->dup_compare = __bam_defcmp;
 F_SET(dbp, DB_AM_DUPSORT);
}
```

```
 else
  if (dbp->dup_compare != NULL) {
   __db_errx(env, DB_STR_A("1015",
  "%s: duplicate sort specified but not supported in database",
       "%s"), name);
   return (EINVAL);
  }

#ifdef HAVE_COMPRESSION
 if (F_ISSET(&btm->dbmeta, BTM_COMPRESS)) {
  F_SET(dbp, DB_AM_COMPRESS);
  if ((BTREE *)dbp->bt_internal != NULL &&
      !DB_IS_COMPRESSED(dbp) &&
      (ret = __bam_set_bt_compress(dbp, NULL, NULL)) != 0)
   return (ret);
 } else {
  if ((BTREE *)dbp->bt_internal != NULL &&
      DB_IS_COMPRESSED(dbp)) {
   __db_errx(env, DB_STR_A("1016",
  "%s: compresssion specified to open method but not set in database",
       "%s"), name);
   return (EINVAL);
  }
 }
#else
 if (F_ISSET(&btm->dbmeta, BTM_COMPRESS)) {
  __db_errx(env, DB_STR_A("1017",
      "%s: compression support has not been compiled in", "%s"),
      name);
  return (EINVAL);
 }
#endif

 /* Set the page size. */
 dbp->pgsize = btm->dbmeta.pagesize;

 dbp->blob_threshold = btm->blob_threshold;
 GET_BLOB_FILE_ID(env,
 btm, dbp->blob_file_id, ret);
 if (ret != 0)
  return (ret);
 GET_BLOB_SDB_ID(env, btm, dbp->blob_sdb_id, ret);
 if (ret != 0)
  return (ret);
 /* Blob databases must be upgraded. */
 if (vers == 9 && (dbp->blob_file_id != 0 || dbp->blob_sdb_id != 0)) {
     __db_errx(env, DB_STR_A("1207",
"%s: databases that support blobs must be upgraded.", "%s"),
```

```
    name);
 return (EINVAL);
 }
#ifndef HAVE_64BIT_TYPES
 if (dbp->blob_file_id != 0 || dbp->blob_sdb_id != 0) {
  __db_errx(env, DB_STR_A("1199",
    "%s: blobs require 64 integer compiler support.", "%s"),
    name);
 return (EINVAL);
 }
#endif

 /* Copy the file's ID. */
 memcpy(dbp->fileid, btm->dbmeta.uid, DB_FILE_ID_LEN);

 return (0);

wrong_type:
 if (dbp->type == DB_BTREE)
  __db_errx(env, DB_STR("1018",
    "open method type is Btree, database type is Recno"));
 else
  __db_errx(env, DB_STR("1019",
    "open method type is Recno, database type is Btree"));
 return
 (EINVAL);
}

/*
* __bam_read_root --
* Read the root page and check a tree.
*
* PUBLIC: int __bam_read_root __P((DB *,
* PUBLIC:      DB_THREAD_INFO *, DB_TXN *, db_pgno_t, u_int32_t));
*/
int
__bam_read_root(dbp, ip, txn, base_pgno, flags)
 DB *dbp;
 DB_THREAD_INFO *ip;
 DB_TXN *txn;
 db_pgno_t base_pgno;
 u_int32_t flags;
{
 BTMETA *meta;
 BTREE *t;
 DBC *dbc;
 DB_LOCK metalock;
 DB_MPOOLFILE *mpf;
```

```
int ret, t_ret;

COMPQUIET(flags, 0);

meta = NULL;
t = dbp->bt_internal;
LOCK_INIT(metalock);
mpf = dbp->mpf;
ret = 0;

/* Get a cursor.  */
if ((ret = __db_cursor(dbp, ip, txn, &dbc,
    F_ISSET(dbp, DB_AM_RECOVER) ? DB_RECOVER : 0)) != 0)
 return (ret);

/* Get the metadata page. */
if ((ret =
    __db_lget(dbc, 0, base_pgno, DB_LOCK_READ, 0, &metalock)) != 0)
 goto err;
if ((ret = __memp_fget(mpf, &base_pgno, ip, dbc->txn, 0, &meta)) != 0)
 goto err;

/*
 * If the magic number is set, the tree has been
created.  Correct
 * any fields that may not be right.  Note, all of the local flags
 * were set by DB->open.
 *
 * Otherwise, we'd better be in recovery or abort, in which case the
 * metadata page will be created/initialized elsewhere.
 *
 * Ignore the last_pgno on the metadata page for snapshot transactions:
 * we may be reading an old version of the page, and we've already
 * set last_pgno from the file size.  The only time this would matter
 * is if we don't have ftruncate and there are some free pages at the
 * end of the file: we could end up with holes.
 */
if (meta->dbmeta.magic == DB_BTREEMAGIC) {
 t->bt_minkey = meta->minkey;
 t->re_pad = (int)meta->re_pad;
 t->re_len = meta->re_len;

 t->bt_meta = base_pgno;
 t->bt_root = meta->root;
 t->revision = dbp->mpf->mfp->revision;
 if (PGNO(meta) == PGNO_BASE_MD &&
     !F_ISSET(dbp, DB_AM_RECOVER) &&
     (txn == NULL || !F_ISSET(txn, TXN_SNAPSHOT)) && (ret =
```

```
    __memp_set_last_pgno(mpf,
 meta->dbmeta.last_pgno)) != 0)
  goto err;
 } else {
  DB_ASSERT(dbp->env,
    IS_RECOVERING(dbp->env) || F_ISSET(dbp, DB_AM_RECOVER));
 }

 /*
  * !!!
  * If creating a subdatabase, we've already done an insert when
  * we put the subdatabase's entry into the master database, so
  * our last-page-inserted value is wrongly initialized for the
  * master database, not the subdatabase we're creating.  I'm not
  * sure where the *right* place to clear this value is, it's not
  * intuitively obvious that it belongs here.
  */
 t->bt_lpgno = PGNO_INVALID;

err: /* Put the metadata page back. */
 if (meta != NULL && (t_ret = __memp_fput(mpf,
    ip, meta, dbc->priority)) != 0 && ret == 0)
  ret = t_ret;
 if ((t_ret = __LPUT(dbc, metalock)) != 0 && ret == 0)
  ret = t_ret;

 if ((t_ret = __dbc_close(dbc)) != 0 && ret == 0)
  ret = t_ret;
 return (ret);
}

/*
* __bam_init_meta --
*
* Initialize a btree meta-data page.  The following fields may
 need
* to be updated later: last_pgno, root.
*/
static void
__bam_init_meta(dbp, meta, pgno, lsnp)
 DB *dbp;
 BTMETA *meta;
 db_pgno_t pgno;
 DB_LSN *lsnp;
{
 BTREE *t;
#ifdef HAVE_PARTITION
 DB_PARTITION *part;
```

```
#endif
 ENV *env;

 env = dbp->env;
 t = dbp->bt_internal;

 memset(meta, 0, sizeof(BTMETA));
 meta->dbmeta.lsn = *lsnp;
 meta->dbmeta.pgno = pgno;
 meta->dbmeta.magic = DB_BTREEMAGIC;
 meta->dbmeta.version = DB_BTREEVERSION;
 meta->dbmeta.pagesize = dbp->pgsize;
 if (F_ISSET(dbp, DB_AM_CHKSUM))
  FLD_SET(meta->dbmeta.metaflags, DBMETA_CHKSUM);
 if (F_ISSET(dbp, DB_AM_ENCRYPT)) {
  meta->dbmeta.encrypt_alg = env->crypto_handle->alg;
  DB_ASSERT(env, meta->dbmeta.encrypt_alg != 0);
  meta->crypto_magic = meta->dbmeta.magic;
 }
 meta->dbmeta.type = P_BTREEMETA;
 meta->dbmeta.free = PGNO_INVALID;
 meta->dbmeta.last_pgno = pgno;
 if (F_ISSET(dbp, DB_AM_DUP))
  F_SET(&meta->dbmeta, BTM_DUP);
 if (F_ISSET(dbp, DB_AM_FIXEDLEN))
  F_SET(&meta->dbmeta,
 BTM_FIXEDLEN);
 if (F_ISSET(dbp, DB_AM_RECNUM))
  F_SET(&meta->dbmeta, BTM_RECNUM);
 if (F_ISSET(dbp, DB_AM_RENUMBER))
  F_SET(&meta->dbmeta, BTM_RENUMBER);
 if (F_ISSET(dbp, DB_AM_SUBDB))
  F_SET(&meta->dbmeta, BTM_SUBDB);
 if (dbp->dup_compare != NULL)
  F_SET(&meta->dbmeta, BTM_DUPSORT);
#ifdef HAVE_COMPRESSION
 if (DB_IS_COMPRESSED(dbp))
  F_SET(&meta->dbmeta, BTM_COMPRESS);
#endif
 if (dbp->type == DB_RECNO)
  F_SET(&meta->dbmeta, BTM_RECNO);
 memcpy(meta->dbmeta.uid, dbp->fileid, DB_FILE_ID_LEN);

 meta->minkey = t->bt_minkey;
 meta->re_len = t->re_len;
 meta->re_pad = (u_int32_t)t->re_pad;
 meta->blob_threshold = dbp->blob_threshold;
 SET_BLOB_META_FILE_ID(meta, dbp->blob_file_id, BTMETA);
```

```
 SET_BLOB_META_SDB_ID(meta, dbp->blob_sdb_id, BTMETA);

#ifdef HAVE_PARTITION
 if ((part = dbp->p_internal) != NULL) {
  meta->dbmeta.nparts = part->nparts;
  if (F_ISSET(part, PART_CALLBACK))
   FLD_SET(meta->dbmeta.metaflags, DBMETA_PART_CALLBACK);
  if (F_ISSET(part,
 PART_RANGE))
   FLD_SET(meta->dbmeta.metaflags, DBMETA_PART_RANGE);
 }
#endif
}

/*
* __bam_new_file --
* Create the necessary pages to begin a new database file.
*
* This code appears more complex than it is because of the two cases (named
* and unnamed).  The way to read the code is that for each page being created,
* there are three parts: 1) a "get page" chunk (which either uses malloc'd
* memory or calls __memp_fget), 2) the initialization, and 3) the "put page"
* chunk which either does a fop write or an __memp_fput.
*
* PUBLIC: int __bam_new_file __P((DB *,
* PUBLIC:      DB_THREAD_INFO *, DB_TXN *, DB_FH *, const char *));
*/
int
__bam_new_file(dbp, ip, txn, fhp, name)
 DB *dbp;
 DB_THREAD_INFO *ip;
 DB_TXN *txn;
 DB_FH *fhp;
 const char *name;
{
 BTMETA *meta;
 DBT pdbt;
 DB_LSN lsn;
 DB_MPOOLFILE *mpf;
 DB_PGINFO pginfo;
 ENV *env;
 PAGE *root;
 db_pgno_t pgno;
 int ret, t_ret;
 void *buf;

 env = dbp->env;
 mpf =
```

```
dbp->mpf;
root = NULL;
meta = NULL;
buf = NULL;

if (F_ISSET(dbp, DB_AM_INMEM)) {
 /* Build the meta-data page. */
 pgno = PGNO_BASE_MD;
 if ((ret = __memp_fget(mpf, &pgno,
    ip, txn, DB_MPOOL_CREATE | DB_MPOOL_DIRTY, &meta)) != 0)
  return (ret);
 LSN_NOT_LOGGED(lsn);
 __bam_init_meta(dbp, meta, PGNO_BASE_MD, &lsn);
 meta->root = 1;
 meta->dbmeta.last_pgno = 1;
 if ((ret =
    __db_log_page(dbp, txn, &lsn, pgno, (PAGE *)meta)) != 0)
  goto err;
 ret = __memp_fput(mpf, ip, meta, dbp->priority);
 meta = NULL;
 if (ret != 0)
  goto err;

 /* Build the root page. */
 pgno = 1;
 if ((ret = __memp_fget(mpf, &pgno,
    ip, txn, DB_MPOOL_CREATE | DB_MPOOL_DIRTY, &root)) != 0)
  goto err;
 P_INIT(root, dbp->pgsize, 1, PGNO_INVALID, PGNO_INVALID,
    LEAFLEVEL, dbp->type == DB_RECNO ? P_LRECNO : P_LBTREE);
 LSN_NOT_LOGGED(root->lsn);
 if ((ret =
    __db_log_page(dbp, txn, &root->lsn, pgno, root)) != 0)
  goto err;
 ret =
__memp_fput(mpf, ip, root, dbp->priority);
 root = NULL;
 if (ret != 0)
  goto err;
} else {
 memset(&pdbt, 0, sizeof(pdbt));

 /* Build the meta-data page. */
 pginfo.db_pagesize = dbp->pgsize;
 pginfo.flags =
    F_ISSET(dbp, (DB_AM_CHKSUM | DB_AM_ENCRYPT | DB_AM_SWAP));
 pginfo.type = dbp->type;
 pdbt.data = &pginfo;
```

```
 pdbt.size = sizeof(pginfo);
 if (dbp->blob_threshold) {
  if ((ret = __blob_generate_dir_ids(dbp, txn,
      &dbp->blob_file_id)) != 0)
   return (ret);

 }
 if ((ret = __os_calloc(env, 1, dbp->pgsize, &buf)) != 0)
  return (ret);
 meta = (BTMETA *)buf;
 LSN_NOT_LOGGED(lsn);
 __bam_init_meta(dbp, meta, PGNO_BASE_MD, &lsn);
 meta->root = 1;
 meta->dbmeta.last_pgno = 1;
 if ((ret = __db_pgout(
     dbp->dbenv, PGNO_BASE_MD, meta, &pdbt)) != 0)
  goto err;
 if ((ret = __fop_write(env, txn, name, dbp->dirname,
     DB_APP_DATA, fhp,
     dbp->pgsize, 0, 0, buf, dbp->pgsize, 1, F_ISSET(
     dbp, DB_AM_NOT_DURABLE)
? DB_LOG_NOT_DURABLE : 0)) != 0)
  goto err;
 meta = NULL;

 /* Build the root page. */
#ifdef DIAGNOSTIC
 memset(buf, CLEAR_BYTE, dbp->pgsize);
#endif
 root = (PAGE *)buf;
 P_INIT(root, dbp->pgsize, 1, PGNO_INVALID, PGNO_INVALID,
     LEAFLEVEL, dbp->type == DB_RECNO ? P_LRECNO : P_LBTREE);
 LSN_NOT_LOGGED(root->lsn);
 if ((ret =
     __db_pgout(dbp->dbenv, root->pgno, root, &pdbt)) != 0)
  goto err;
 if ((ret =
     __fop_write(env, txn, name, dbp->dirname, DB_APP_DATA,
     fhp, dbp->pgsize, 1, 0, buf, dbp->pgsize, 1, F_ISSET(
     dbp, DB_AM_NOT_DURABLE) ? DB_LOG_NOT_DURABLE : 0)) != 0)
  goto err;
 root = NULL;
 }

err: if (buf != NULL)
 __os_free(env, buf);
 else {
 if (meta != NULL &&
```

```
    (t_ret = __memp_fput(mpf, ip,
    meta, dbp->priority)) != 0 && ret == 0)
  ret = t_ret;
 if (root != NULL &&
    (t_ret = __memp_fput(mpf, ip,
    root, dbp->priority)) != 0 && ret == 0)
  ret = t_ret;
 }
 return (ret);
}

/*
 * __bam_new_subdb --
* Create a metadata page and a root page for a new btree.
*
* PUBLIC: int __bam_new_subdb __P((DB *, DB *, DB_THREAD_INFO *, DB_TXN *));
*/
int
__bam_new_subdb(mdbp, dbp, ip, txn)
 DB *mdbp, *dbp;
 DB_THREAD_INFO *ip;
 DB_TXN *txn;
{
 BTMETA *meta;
 DBC *dbc;
 DB_LOCK metalock;
 DB_LSN lsn;
 DB_MPOOLFILE *mpf;
 ENV *env;
 PAGE *root;
 int ret, t_ret;

 env = mdbp->env;
 mpf = mdbp->mpf;
 dbc = NULL;
 meta = NULL;
 root = NULL;

 if (dbp->blob_threshold) {
  if ((ret = __blob_generate_dir_ids(dbp, txn,
     &dbp->blob_sdb_id)) != 0)
   return (ret);
 }

 if ((ret = __db_cursor(mdbp, ip, txn,
    &dbc, CDB_LOCKING(env) ?  DB_WRITECURSOR : 0)) != 0)
  return (ret);
```

```
 /* Get, and optionally create the metadata page. */
 if ((ret = __db_lget(dbc,
    0, dbp->meta_pgno, DB_LOCK_WRITE, 0, &metalock)) != 0)
  goto err;
 if ((ret = __memp_fget(mpf, &dbp->meta_pgno,
    ip, txn, DB_MPOOL_CREATE | DB_MPOOL_DIRTY, &meta))
 != 0)
  goto err;

 /* Build meta-data page. */
 lsn = meta->dbmeta.lsn;
 __bam_init_meta(dbp, meta, dbp->meta_pgno, &lsn);
 if ((ret = __db_log_page(mdbp,
    txn, &meta->dbmeta.lsn, dbp->meta_pgno, (PAGE *)meta)) != 0)
  goto err;

 /* Create and initialize a root page. */
 if ((ret = __db_new(dbc,
    dbp->type == DB_RECNO ? P_LRECNO : P_LBTREE, NULL, &root)) != 0)
  goto err;
 root->level = LEAFLEVEL;

 if (DBENV_LOGGING(env) &&
#if !defined(DEBUG_WOP)
    txn != NULL &&
#endif

    (ret = __bam_root_log(mdbp, txn, &meta->dbmeta.lsn, 0,
    meta->dbmeta.pgno, root->pgno, &meta->dbmeta.lsn)) != 0)
  goto err;

 meta->root = root->pgno;
 if ((ret =
    __db_log_page(mdbp, txn, &root->lsn, root->pgno, root)) != 0)
  goto err;

 /* Release the metadata and root pages. */
 if ((ret = __memp_fput(mpf, ip, meta, dbc->priority)) != 0)
  goto err;
 meta = NULL;
 if ((ret = __memp_fput(mpf, ip, root, dbc->priority)) != 0)
  goto err;
 root = NULL;
err:
 if
 (meta != NULL)
  if ((t_ret = __memp_fput(mpf, ip,
  meta, dbc->priority)) != 0 && ret == 0)
```

```
  ret = t_ret;
 if (root != NULL)
  if ((t_ret = __memp_fput(mpf, ip,
  root, dbc->priority)) != 0 && ret == 0)
   ret = t_ret;
 if ((t_ret = __LPUT(dbc, metalock)) != 0 && ret == 0)
  ret = t_ret;
 if (dbc != NULL)
  if ((t_ret = __dbc_close(dbc)) != 0 && ret == 0)
   ret = t_ret;
 return (ret);
}
```

1.64 cpio 2.11

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1.70 coreutils 8.22

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1.73 binutils 2.21.51

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

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration
 including heavy testing and
verification of cross assemblers and file splits and renaming,
converted gas to strictly ansi C including full prototypes, added
support for m680[34]0 & cpu32, considerable work on i960 including a
coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host
ports, updated "know" assertions and made them work, much other
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith
Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation
that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many

small
bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon
University. Additional work was done by Ken Raeburn of Cygnus
Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000
series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30
(tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error
checking, updating the code, and improving the 16 bit support, using
patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If
you've contributed significant work and are not mentioned on this list, and
want to be, let us know. Some of the history has been lost;
we aren't
intentionally leaving anyone out.

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consistent with the full freedom of use specified in this license.

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

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

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

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

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

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

that program using a modified version of the Library.

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

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

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

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

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

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

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

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

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

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

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

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

entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

therefore falls outside the scope of this License.

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

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

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

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

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under

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

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

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

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

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

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

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

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

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changes to the library and recompiling
it. And you must show them these terms so they know their rights.

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

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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

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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
Public License for libraries did not effectively promote software
sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

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

The precise terms and conditions for copying, distribution and
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"work based on the library" and a "work that uses the library". The
former contains code derived from the library, while the latter only
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Note that it is possible for a library to be covered by the ordinary
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Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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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.)

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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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.

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

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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
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1.74 shadow 4.5-1.1

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials

specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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

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

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

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

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

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

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system and a licensee cannot
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an explicit geographical distribution limitation excluding those countries,
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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modify it
under the terms of the GNU Library General Public
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Also add information on how to contact you by electronic and paper mail.

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

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

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

1.77 jcommander 1.48

1.78 npth 1.2

1.78.1 Available under license :

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as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

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freedom to share and change it. By contrast, the GNU General Public
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This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
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can use it too, but we suggest you first think carefully about whether
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strategy to use in any particular case, based on the explanations
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it if you want it; that you can change the software and use pieces of
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To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

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

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

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

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

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

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

the library.

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

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

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

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

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

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A "library" means a collection of software functions and/or data

prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the

ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

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

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

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

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

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

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

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

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

file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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

c) Accompany the work with a written offer, valid for at least

three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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1.79 tcl 8.3.2

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1.87 commons-lang3 3.4

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/**
* A registry for service provider objects.
* <p/>
* Service providers are looked up from the classpath, under the path
* {@code META-INF/services/}&lt;full-class-name&gt;.
* <p/>
* For example:<br/>
* {@code META-INF/services/com.company.package.spi.MyService}.
* <p/>
* The file should contain a list of fully-qualified concrete class names,
*
 one per line.
* <p/>
* The <em>full-class-name</em> represents an interface or (typically) an
* abstract class, and is the same class used as the category for this registry.
* Note that only one instance of a concrete subclass may be registered with a
* specific category at a time.
* <p/>
* <small>Implementation detail: This class is a clean room implementation of
```

* a service registry and does not use the proprietary {@code sun.misc.Service}
* class that is referred to in the JAR File specification.
* This class should work on any Java platform.
* </small>
*
* @author Harald Kuhr
* @version $Id: com/twelvemonkeys/util/service/ServiceRegistry.java#2 $
* @see RegisterableService
* @see JAR File
Specification
*/

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* /common-lang-3-4-sources-jar/com/twelvemonkeys/util/NullMap.java
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* /common-lang-3-4-sources-jar/com/twelvemonkeys/util/package_info.java
* /common-lang-3-4-sources-jar/com/twelvemonkeys/util/service/ServiceConfigurationError.java
* /common-lang-3-4-sources-jar/com/twelvemonkeys/util/WeakWeakMap.java
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* /common-lang-3-4-sources-jar/com/twelvemonkeys/util/convert/MissingTypeException.java
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*
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/common-lang-3-4-sources-jar/com/twelvemonkeys/util/CollectionUtil.java
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1.88 stax-api 1.0.1

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@item
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1.93 perl 5.20.0

1.93.1 Available under license :

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---
abstract: 'Build and install Perl modules'
author:
 - 'Ken Williams <kwilliams@cpan.org>'
 - "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."
build_requires:
 File::Temp: 0.15
 Test::Harness: 3.16
 Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: 1.4
name: Module-Build
resources:
 MailingList: mailto:module-build@perl.org

license: http://dev.perl.org/licenses/
repository: http://github.com/dagolden/module-build/
version: 3

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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commands you use may be called something other than `show w' and `show
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You should also get your employer (if you work as a programmer) or your
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 program `Gnomovision' (a program to direct compilers to make passes
 at assemblers) written by James Hacker.

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

That's all there is to it!
#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ($Config{usecrosscompile}) {
 skip_all("Not all files are available during cross-compilation");
}

```
my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
 my $current_year = (gmtime)[5] + 1900;
 is $v_year, $current_year, 'perl -v copyright includes current
 year';
 is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
 is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;


sub readme_year
# returns the latest copyright year from the top-level README file
{

 open my $readme, '<', '../README' or die "Opening README failed: $!";

 # The copyright message is the first paragraph:
 local $/ = '';
 my $copyright_msg = <$readme>;

 my ($year) = $copyright_msg =~ /.*\b(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'";

 $year;
}


sub v_year
# returns the latest copyright year shown in perl -v
{

 my $output = runperl switches => ['-v'];
 my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
    or die "Copyright statement not found in perl -v output '$output'";
```

$year;
}
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1.94 jetty-util 9.4.16.v20190411

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

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

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

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* java.sun.security.ssl

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

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

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org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
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 org.apache.tomcat:tomcat-jsp-api
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 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

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

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

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

Apache

The following artifacts are ASL2 licensed.

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

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2
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org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.103 cdebconf 0.249

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1.104 pcre 8.39-12

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1.105 coreutils 8.30-3

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1.107 diffutils 3.7-3

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1.113 libedit 3.1-20181209-1

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1.114 xerces-j 2.7.1

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1.115 zeromq 4.2.5

1.115.1 Available under license :

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1.120 libx11 1.6.2

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ASM: a very small and fast Java bytecode manipulation framework

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#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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@end smallexample

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notice like this when it starts in an interactive mode:

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@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY;
 for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end smallexample

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FIRST NOTE:
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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 Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip

are near the end of this file.

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

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

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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  *
```

```
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```

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```
   *  MacBinaryIII.h
   *
   *  Copyright 1997 Christopher Evans (cevans@poppybank.com)
   *
   *  Basic encoding and decoding of Macintosh files to the
   *  MacBinary III spec.
   * ---------------------------------------------------------------------
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```

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The following copyright applies to the full-featured unreduce.c
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```
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```

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

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

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

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

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```
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```

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```
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  * Miller.  The product "Pocket UnZip" itself is property of the
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  * 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
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1.133 c3p0 0.9.1.1

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1.134 httpcomponents-client 4.5.6

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==========

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1.137 json-c 0.12

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1.138 libpcap 1.6.1

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1.139 ncurses 6.1+20181013-2+deb10u2

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1.140 kmod 26-1

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1.141 lvm2 2.03.02-3

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1.145 lsof 4.91+dfsg-1

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1.151 e2fsprogs 1.44.5-1+deb10u3

1.151.1 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:

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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
-
-   Copyright (C) Andrew Tridgell              2005
+   Copyright (C) Andrew Tridgell              1999-2005
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```

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Gadi Oxman, August 1995

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```
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```

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```
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#
This is a Makefile stub which handles the creation of BSD shared
libraries.
#
In order to use this stub, the following makefile variables must be defined.
#
BSDLIB_VERSION = 1.0
BSDLIB_IMAGE = libce
BSDLIB_MYDIR = et
BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

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

image: $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
```

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This package was put together by Yann Dirson <dirson@debian.org>,
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1.152 ecj 22

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 *
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 *
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1.155 jsp 5.5.12

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inline
functions (ten lines or less in length), then the use of the object
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1.160 pcre 10.34

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1.161 iproute 5.5.0

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```
import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root
```

1.165 gorilla v1.7.2

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Here the stream cipher has been modified
always to include the time
when initializing the state. That makes it impossible to
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MD5Context
structure, pass it to MD5Init, call MD5Update as
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--

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The End

1.171 findutils 6.5

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1.172 xz 5.1.3alpha

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1.174 parted 1.2

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1.175 libxcb 0.1

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1.178 libnl3 3.5.0

1.178.1 Available under license :

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Version 2.1, February 1999

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1.179 libtool 6.0

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1.182 base-passwd 3.5.46

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1.183 debianutils 4.8.6.1

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- Seth Arnold, for contributing to the documentation.
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- Anibal Monsalve Salazar, (current) maintainer/packager of BeeCrypt for
Debian GNU/Linux.
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- ARM Ltd, for donating a copy of "ARM Architecture Reference Manual".
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other distros.

If I've missed anyone, it's due to oversight. Drop me a line and I'll
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1.187 libidn 1.33-2.2

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1.189 perl 5.28.1-6+deb10u1

1.190 commons-lang3 3.0

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* /jackson-mapper-asl-1-9-13-sources-2-jar/org/codehaus/jackson/map/MappingJsonFactory.java

1.194 libssh2 1.4.3

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1.196 json-c 0.12.1+ds-2+deb10u1

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+ many more (please mail me if you are missing in this list and would
like to be mentioned)
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver

* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*   as needed. This means that data must always be copied to create
*   the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*   Fix is simple: make large buffers large enough to hold entire
*   SDU, and leave <small_buffer_data> bytes empty at the start. Then
*   copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*   buffers. This is done by 2 things:
*   1) skb->destructor / skb->atm.recycle_buffer
*   combined, allow nicstar_free_rx_skb to be called to
*   recycle large data buffers
*   2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*   details.
*
*
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*
* M. Welsh, 6 July 1996
*
*
*/
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 for the initial saa7146 driver and its recent overhaul

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 for his work on the initial Linux DVB driver

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Ralph Metzler <rjkm@metzlerbros.de>
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 for his contributions to the dvb-net driver

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

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 for patching the cable card decoder driver

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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
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(If you think you should be in this list, but you are not, drop
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```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*    as needed. This means that data must always be copied to create
*    the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*    Fix is simple: make large buffers large enough to hold entire
*    SDU, and leave <small_buffer_data> bytes empty at the start. Then
*    copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*    buffers. This is done by 2 things:
*      1) skb->destructor / skb->atm.recycle_buffer
*          combined, allow nicstar_free_rx_skb to be called to
*          recycle large data buffers
*      2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*    details.
*
*
*
```

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*
* M. Welsh, 6 July 1996
*
*
*/
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       Version 2, June 1991

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*

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 The reason we have a separate public license for some libraries is that
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program and simply using it. Linking a program with a library, without
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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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concluded that weaker conditions might promote sharing better.

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function must
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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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the
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Appendix: How to Apply These Terms to Your New Libraries

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1.199 tre 0.8.0

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1.200 tcpdump 4.9.3

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1.201 commons-lang3 3.1

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1.202 gnutls 3.6.14

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##
Constant-time SSSE3 AES core implementation.
version 0.1
##
By Mike Hamburg (Stanford University), 2009
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##
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1.203 zlib 1.2.7-18.el7

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1.204 psutil 5.7.3

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1.205 jetty 9.4.16.v20190411

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

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

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

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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http://openjdk.java.net/legal/gplv2+ce.html

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

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org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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

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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.206 six 1.12.0

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1.207 pycrypto 2.6.1

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PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

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=== EOF ===

1.208 go-shellwords v1.0.3

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1.212 kerberos 1.15.1-50.el7

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cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
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lib/libgss/g_userok.c

lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
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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
slave/kpropd_rpc.c
slave/kproplog.c

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*
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*
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1.231 libmnl 1.0.4-2

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1.239 gpm 1.20.7-5

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1.245 smartmontools 6.2

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* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/AvalonLogger.java
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Found in path(s):
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/LogConfigurationException.java
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Log4JLogger.java

* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/LogFactoryImpl.java
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java
*
/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/SimpleLog.java
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk14Logger.java
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/LogSource.java
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/NoOpLog.java
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/LogKitLogger.java
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/Log.java
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Found in path(s):
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/package.html
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/package.html

1.248 bcel 2.7.2

1.248.1 Available under license :

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*/

/*
* $Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas $
*/

/*
* @author Jacek Ambroziak
* @author
 Santiago Pericas-Geertsen
* @author Morten Jorgensen
* @author G. Todd Miller
*/

package org.apache.xalan.xsltc.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;

import org.apache.xml.dtm.DTM;
import org.apache.xalan.xsltc.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xsltc.runtime.Operators;
import org.apache.xalan.xsltc.compiler.util.ErrorMsg;

parser code {:
  /**
   * Used by function calls with no args.
   */
  static public final Vector EmptyArgs = new Vector(0);

  /**
   * Reference to non-existing variable.
   */
  static public final VariableRef DummyVarRef = null;

  /**
   * Reference to the Parser class.
   */
  private Parser _parser;
  private XSLTC  _xsltc;

  /**
```

```
     * String representation of the expression being parsed.
     */
    private String _expression;

    /**
     * Line number where this expression/pattern
    was declared.
     */
    private int _lineNumber = 0;

    /**
     * Reference to the symbol table.
     */
    public SymbolTable _symbolTable;

    public XPathParser(Parser parser) {
        _parser = parser;
    _xsltc = parser.getXSLTC();
        _symbolTable = parser.getSymbolTable();
    }

    public int getLineNumber() {
        return _lineNumber;
    }

    public QName getQNameIgnoreDefaultNs(String name) {
          return _parser.getQNameIgnoreDefaultNs(name);
    }

    public QName getQName(String namespace, String prefix, String localname) {
        return _parser.getQName(namespace, prefix, localname);
    }

    public void setMultiDocument(boolean flag) {
          _xsltc.setMultiDocument(flag);
    }

    public void setCallsNodeset(boolean flag) {
          _xsltc.setCallsNodeset(flag);
    }

    public void setHasIdCall(boolean flag) {
          _xsltc.setHasIdCall(flag);
    }


    /**
     * This
```

```
method is similar to findNodeType(int, Object) except that it
   * creates a StepPattern instead of just returning a node type. It also
   * differs in the way it handles "{uri}:*" and "{uri}:@*". The last two
   * patterns are expanded as "*[namespace-uri() = 'uri']" and
   * "@*[namespace-uri() = 'uri']", respectively. This expansion considerably
   * simplifies the grouping of patterns in the Mode class. For this
   * expansion to be correct, the priority of the pattern/template must be
   * set to -0.25 (when no other predicates are present).
   */
  public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
int nodeType;

if (test == null) {  // "*"
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
 (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;

    return new StepPattern(axis, nodeType, predicates);
      }
      else if (test instanceof Integer) {
    nodeType = ((Integer) test).intValue();


   return new StepPattern(axis, nodeType, predicates);
      }
      else {
    QName name = (QName)test;
    boolean setPriority = false;

    if (axis == Axis.NAMESPACE) {
 nodeType = (name.toString().equals("*")) ? -1
  : _xsltc.registerNamespacePrefix(name);;
         }
    else {
 final String uri = name.getNamespace();
 final String local = name.getLocalPart();
 final QName namespace_uri =
    _parser.getQNameIgnoreDefaultNs("namespace-uri");

 // Expand {uri}:* to *[namespace-uri() = 'uri'] - same for @*
 if (uri != null && (local.equals("*") || local.equals("@*"))) {
    if (predicates == null) {
 predicates = new Vector(2);
    }

    // Priority is set by hand if no other predicates exist
    setPriority = (predicates.size() == 0);

    predicates.add(
```

```
 new Predicate(
     new EqualityExpr(Operators.EQ,
  new NamespaceUriCall(namespace_uri),
  new LiteralExpr(uri))));
 }

 if (local.equals("*"))
{
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
 : NodeTest.ELEMENT;
 }
 else if (local.equals("@*")) {
    nodeType = NodeTest.ATTRIBUTE;
 }
 else {
    nodeType = (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
 : _xsltc.registerElement(name);
 }
   }

   final StepPattern result = new StepPattern(axis, nodeType, predicates);

   // Set priority for case prefix:* and prefix:@* (no predicates)
   if (setPriority) {
 result.setPriority(-0.25);
   }

   return result;
}
 }

 public int findNodeType(int axis, Object test) {
if (test == null) {  // *
   return (axis == Axis.ATTRIBUTE) ?
 NodeTest.ATTRIBUTE :
 (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
     }
     else if (test instanceof Integer) {
        return ((Integer)test).intValue();
     }
     else {
   QName name = (QName)test;

   if (axis == Axis.NAMESPACE) {
 return (name.toString().equals("*"))
? -1
    : _xsltc.registerNamespacePrefix(name);
        }
```

```
  if (name.getNamespace() == null) {
final String local = name.getLocalPart();

if (local.equals("*")) {
   return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
 : NodeTest.ELEMENT;
}
else if (local.equals("@*")) {
   return NodeTest.ATTRIBUTE;
}
  }

  return (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
: _xsltc.registerElement(name);
    }
 }

 /**
  * Parse the expression passed to the current scanner. If this
  * expression contains references to local variables and it will be
  * compiled in an external module (not in the main class) request
  * the current template to create a new variable stack frame.
  *
  * @param lineNumber Line where the current expression is defined.
  * @param external   Set to <tt>true</tt> if this expression is
  *                   compiled in a separate module.
  *

  */
 public Symbol parse(String expression, int lineNumber) throws Exception {
    try {
  _expression = expression;
  _lineNumber = lineNumber;
  return super.parse();
    }
    catch (IllegalCharException e) {
       ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
                                   lineNumber, e.getMessage());
       _parser.reportError(Constants.FATAL, err);
    }
    return null;
 }

 /**
  * Lookup a variable or parameter in the symbol table given its name.
  *
  * @param name Name of the symbol being looked up.
```

```
   */
  final SyntaxTreeNode lookupName(QName name) {
      // Is it a local var or param ?
      final SyntaxTreeNode result = _parser.lookupVariable(name);
if (result != null)
          return(result);
      else
    return(_symbolTable.lookupName(name));
  }

  public final void addError(ErrorMsg error) {
_parser.reportError(Constants.ERROR,
error);
  }

  public void report_error(String message, Object info) {
final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber,
    _expression);
_parser.reportError(Constants.FATAL, err);
  }

  public void report_fatal_error(String message, Object info) {
      // empty
  }

  public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
if (rlp instanceof Step) {
    return new ParentLocationPath(step, (Step) rlp);
}
else if (rlp instanceof ParentLocationPath) {
    final ParentLocationPath plp = (ParentLocationPath) rlp;
    final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
    return new ParentLocationPath(newrlp, plp.getStep());
}
else {
    addError(new ErrorMsg(ErrorMsg.INTERNAL_ERR, "XPathParser.insertStep"));
    return rlp;
}
  }

  /**
   * Returns true if the axis applies to elements only. The axes
   * child, attribute, namespace, descendant
result in non-empty
   * nodesets only if the context node is of type element.
   */
  public boolean isElementAxis(int axis) {
return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
```

```
  axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
   }
:}

terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QNAME;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;
non terminal Expression Predicate, FilterExpr, Step;
non
 terminal Expression OrExpr, AndExpr, EqualityExpr;
non terminal Expression RelationalExpr, AdditiveExpr;
non terminal Expression MultiplicativeExpr, UnaryExpr;
non terminal Expression VariableReference, FunctionCall;
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;
non terminal Pattern Pattern;
non terminal Pattern LocationPathPattern;
non terminal StepPattern ProcessingInstructionPattern;
non terminal RelativePathPattern RelativePathPattern;
non terminal StepPattern StepPattern;
non terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;
non terminal QName QName, FunctionName, VariableName;
non terminal Integer AxisName, AxisSpecifier;
non terminal
 Integer ChildOrAttributeAxisSpecifier;
```

```
precedence left VBAR;
precedence left OR;
precedence left AND;
precedence nonassoc EQ, NE;
precedence left LT, GT, LE, GE;

precedence left PLUS, MINUS;
precedence left DIV, MOD, MULT;
precedence left DOLLAR;
precedence left ATSIGN;
precedence right DCOLON;

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern
        {: RESULT = pattern; :}

        | EXPRESSION Expr:expr
        {: RESULT = expr; :};

/* --------------------------- Patterns ---------------------------------- */

Pattern ::= LocationPathPattern:lpp
        {: RESULT = lpp; :}

        | LocationPathPattern:lpp VBAR Pattern:p
        {: RESULT = new AlternativePattern(lpp, p);  :};

LocationPathPattern ::= SLASH
        {: RESULT = new AbsolutePathPattern(null); :}

        | SLASH RelativePathPattern:rpp
        {: RESULT = new AbsolutePathPattern(rpp); :}

        | IdKeyPattern:ikp

      {: RESULT = ikp; :}

        | IdKeyPattern:ikp SLASH RelativePathPattern:rpp
        {: RESULT = new ParentPattern(ikp, rpp); :}

        | IdKeyPattern:ikp DSLASH RelativePathPattern:rpp
        {: RESULT = new AncestorPattern(ikp, rpp); :}

        | DSLASH RelativePathPattern:rpp
        {: RESULT = new AncestorPattern(rpp); :}

        | RelativePathPattern:rpp
```

```
        {: RESULT = rpp; :};

IdKeyPattern ::= ID LPAREN Literal:l RPAREN
        {: RESULT = new IdPattern(l);
          parser.setHasIdCall(true);
        :}

        | KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN
        {: RESULT = new KeyPattern(l1, l2); :};

ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN
        {: RESULT = new ProcessingInstructionPattern(l); :};

RelativePathPattern ::= StepPattern:sp
        {: RESULT = sp; :}

        | StepPattern:sp SLASH RelativePathPattern:rpp
        {: RESULT
 = new ParentPattern(sp, rpp); :}

        | StepPattern:sp DSLASH RelativePathPattern:rpp
        {: RESULT = new AncestorPattern(sp, rpp); :};

StepPattern ::= NodeTestPattern:nt
        {:
  RESULT = parser.createStepPattern(Axis.CHILD, nt, null);
        :}

        | NodeTestPattern:nt Predicates:pp
        {:
  RESULT = parser.createStepPattern(Axis.CHILD, nt, pp);
        :}

        | ProcessingInstructionPattern:pip
        {: RESULT = pip; :}

    | ProcessingInstructionPattern:pip Predicates:pp
        {: RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); :}

        | ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt
        {:
      RESULT = parser.createStepPattern(axis.intValue(), nt, null);
        :}

    | ChildOrAttributeAxisSpecifier:axis
   NodeTestPattern:nt Predicates:pp
        {:
      RESULT = parser.createStepPattern(axis.intValue(), nt, pp);
```

```
        :}

        | ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
        {:
      RESULT = pip;  // TODO: report error if axis is attribute
    :}

    | ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
  Predicates:pp
        {:
      // TODO: report error if axis is attribute
      RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp);
    :};

NodeTestPattern ::= NameTestPattern:nt
        {: RESULT = nt; :}

        | NODE
        {: RESULT = new Integer(NodeTest.ANODE); :}

        | TEXT
        {: RESULT = new Integer(NodeTest.TEXT); :}

        | COMMENT
        {: RESULT = new Integer(NodeTest.COMMENT); :}

        | PI
        {: RESULT = new Integer(NodeTest.PI); :};

NameTestPattern ::= STAR
        {: RESULT = null; :}

        | QName:qn
        {: RESULT = qn; :};

ChildOrAttributeAxisSpecifier ::= ATSIGN

        {: RESULT = new Integer(Axis.ATTRIBUTE); :}

        | CHILD DCOLON
        {: RESULT = new Integer(Axis.CHILD); :}

        | ATTRIBUTE DCOLON
        {: RESULT = new Integer(Axis.ATTRIBUTE); :};

Predicates ::= Predicate:p
        {:
  Vector temp = new Vector();
```

```
 temp.addElement(p);
 RESULT = temp;
        :}

        | Predicate:p Predicates:pp
        {: pp.insertElementAt(p, 0); RESULT = pp; :};

Predicate ::=  LBRACK Expr:e RBRACK
    {:
 RESULT = new Predicate(e);
    :};

/* --------------------------- Expressions -------------------------------- */

Expr ::= OrExpr:ex
      {: RESULT = ex; :};

OrExpr ::= AndExpr:ae
      {: RESULT = ae; :}

      | OrExpr:oe OR AndExpr:ae
      {: RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); :};

AndExpr ::= EqualityExpr:e
      {: RESULT = e; :}

      | AndExpr:ae AND EqualityExpr:ee
      {: RESULT = new LogicalExpr(LogicalExpr.AND,
 ae, ee); :};

EqualityExpr ::= RelationalExpr:re
      {: RESULT = re; :}

      | EqualityExpr:ee EQ RelationalExpr:re
      {: RESULT = new EqualityExpr(Operators.EQ, ee, re); :}

      | EqualityExpr:ee NE RelationalExpr:re
      {: RESULT = new EqualityExpr(Operators.NE, ee, re); :};

RelationalExpr ::= AdditiveExpr:ae
      {: RESULT = ae; :}

      | RelationalExpr:re LT AdditiveExpr:ae
      {: RESULT = new RelationalExpr(Operators.LT, re, ae); :}

      | RelationalExpr:re GT AdditiveExpr:ae
      {: RESULT = new RelationalExpr(Operators.GT, re, ae); :}
```

```
      | RelationalExpr:re LE AdditiveExpr:ae
      {: RESULT = new RelationalExpr(Operators.LE, re, ae); :}

      | RelationalExpr:re GE AdditiveExpr:ae
      {: RESULT = new RelationalExpr(Operators.GE, re, ae); :};

AdditiveExpr ::= MultiplicativeExpr:me
      {: RESULT = me; :}

      | AdditiveExpr:ae PLUS  MultiplicativeExpr:me
      {: RESULT = new BinOpExpr(BinOpExpr.PLUS,
 ae, me); :}

      | AdditiveExpr:ae MINUS MultiplicativeExpr:me
      {: RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); :};

MultiplicativeExpr ::= UnaryExpr:ue
      {: RESULT = ue; :}

      | MultiplicativeExpr:me MULT UnaryExpr:ue
      {: RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); :}

      | MultiplicativeExpr:me DIV UnaryExpr:ue
      {: RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); :}

      | MultiplicativeExpr:me MOD UnaryExpr:ue
      {: RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); :};

UnaryExpr ::= UnionExpr:ue
      {: RESULT = ue; :}

      | MINUS UnaryExpr:ue
      {: RESULT = new UnaryOpExpr(ue); :};

UnionExpr ::= PathExpr:pe
      {: RESULT = pe; :}

      | PathExpr:pe VBAR UnionExpr:rest
      {: RESULT = new UnionPathExpr(pe, rest); :};

PathExpr ::= LocationPath:lp
      {: RESULT = lp; :}

      | FilterExpr:fexp
      {: RESULT = fexp; :}

      | FilterExpr:fexp
```

```
 SLASH RelativeLocationPath:rlp
      {: RESULT = new FilterParentPath(fexp, rlp); :}

      | FilterExpr:fexp DSLASH RelativeLocationPath:rlp
      {:
        //
   // Expand '//' into '/descendant-or-self::node()/' or
   // into /descendant-or-self::*/
   //
   int nodeType = DOM.NO_TYPE;
   if (rlp instanceof Step &&
      parser.isElementAxis(((Step) rlp).getAxis()))
   {
      nodeType = DTM.ELEMENT_NODE;
   }
        final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
        FilterParentPath fpp = new FilterParentPath(fexp, step);
        fpp = new FilterParentPath(fpp, rlp);
        if (fexp instanceof KeyCall == false) {
           fpp.setDescendantAxis();
   }
        RESULT = fpp;
      :};

LocationPath ::= RelativeLocationPath:rlp
      {: RESULT = rlp; :}

      | AbsoluteLocationPath:alp
      {: RESULT = alp; :};

RelativeLocationPath ::= Step:step
      {: RESULT
 = step; :}

      | RelativeLocationPath:rlp SLASH Step:step
      {:
      if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
           RESULT = step;       // Remove './' from the middle
      }
      else if (((Step) step).isAbbreviatedDot()) {
           RESULT = rlp;        // Remove '/.' from the end
      }
      else {
          RESULT =
            new ParentLocationPath((RelativeLocationPath) rlp, step);
        }
      :}
```

```
    | AbbreviatedRelativeLocationPath:arlp
    {: RESULT = arlp; :};

AbsoluteLocationPath ::= SLASH
    {: RESULT = new AbsoluteLocationPath(); :}

    | SLASH RelativeLocationPath:rlp
    {: RESULT = new AbsoluteLocationPath(rlp); :}

    | AbbreviatedAbsoluteLocationPath:aalp
    {: RESULT = aalp; :};

AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step
    {:
   final Step right  = (Step)step;
      final
 int  axis   = right.getAxis();
      final int  type   = right.getNodeType();
      final Vector predicates = right.getPredicates();

      if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {
        // Compress './/child:E' into 'descendant::E' - if possible
        if (predicates == null) {
          right.setAxis(Axis.DESCENDANT);
          if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
         RESULT = right;
          }
          else {
            // Expand 'rlp//child::E' into 'rlp/descendant::E'
            RelativeLocationPath left = (RelativeLocationPath)rlp;
         RESULT = new ParentLocationPath(left, right);
          }
        }
        else {
          // Expand './/step' -> 'descendant-or-self::*/step'
          if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {

       Step left = new Step(Axis.DESCENDANTORSELF,
    DTM.ELEMENT_NODE, null);
            RESULT = new ParentLocationPath(left, right);
          }
          else {
            // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
            RelativeLocationPath left = (RelativeLocationPath)rlp;
            Step mid = new Step(Axis.DESCENDANTORSELF,
    DTM.ELEMENT_NODE, null);
            ParentLocationPath ppl = new ParentLocationPath(mid, right);
            RESULT = new ParentLocationPath(left, ppl);
```

```
            }
          }
        }
        else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
          // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
          RelativeLocationPath left = (RelativeLocationPath)rlp;
          Step middle = new Step(Axis.DESCENDANTORSELF,
    DTM.ELEMENT_NODE, null);

          ParentLocationPath ppl = new ParentLocationPath(middle, right);
          RESULT = new ParentLocationPath(left, ppl);
  }
  else {
     // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
          RelativeLocationPath left = (RelativeLocationPath)rlp;
     Step middle = new Step(Axis.DESCENDANTORSELF,
    DOM.NO_TYPE, null);
          ParentLocationPath ppl = new ParentLocationPath(middle, right);
     RESULT = new ParentLocationPath(left, ppl);
  }
    :};


AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp
      {:
        //
  // Expand '//' into '/descendant-or-self::node()/' or
  // into /descendant-or-self::*/
  //
  int nodeType = DOM.NO_TYPE;
  if (rlp instanceof Step &&
     parser.isElementAxis(((Step) rlp).getAxis()))
  {
     nodeType = DTM.ELEMENT_NODE;
  }
  final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
  RESULT =
 new AbsoluteLocationPath(parser.insertStep(step,
  (RelativeLocationPath) rlp));
 :};

Step ::= NodeTest:ntest
      {:
        if (ntest instanceof Step) {
          RESULT = (Step)ntest;
        }
        else {
  RESULT = new Step(Axis.CHILD,
```

```
                    parser.findNodeType(Axis.CHILD, ntest),
                    null);
            }
        :}

        | NodeTest:ntest Predicates:pp
        {:
            if (ntest instanceof Step) {
                Step step = (Step)ntest;
                step.addPredicates(pp);
                RESULT = (Step)ntest;
            }
            else {
                RESULT = new Step(Axis.CHILD,
                    parser.findNodeType(Axis.CHILD, ntest), pp);
            }
        :}

        | AxisSpecifier:axis NodeTest:ntest Predicates:pp
        {: RESULT = new Step(axis.intValue(),
                    parser.findNodeType(axis.intValue(), ntest),
                     pp);
        :}

        | AxisSpecifier:axis NodeTest:ntest
        {: RESULT = new Step(axis.intValue(),
                    parser.findNodeType(axis.intValue(), ntest),
                    null);
        :}

        | AbbreviatedStep:abbrev
        {: RESULT = abbrev; :};

    AxisSpecifier ::= AxisName:an DCOLON
        {: RESULT = an; :}

        | ATSIGN
        {: RESULT = new Integer(Axis.ATTRIBUTE); :};

    AxisName ::=    ANCESTOR
        {: RESULT = new Integer(Axis.ANCESTOR); :}

        | ANCESTORORSELF
        {: RESULT = new Integer(Axis.ANCESTORORSELF); :}

        | ATTRIBUTE
        {: RESULT = new Integer(Axis.ATTRIBUTE); :}
```

```
        | CHILD
        {: RESULT = new Integer(Axis.CHILD); :}

        | DESCENDANT
        {: RESULT = new Integer(Axis.DESCENDANT); :}

        | DESCENDANTORSELF
        {: RESULT = new Integer(Axis.DESCENDANTORSELF); :}

        | FOLLOWING
        {: RESULT = new
    Integer(Axis.FOLLOWING); :}

        | FOLLOWINGSIBLING
        {: RESULT = new Integer(Axis.FOLLOWINGSIBLING); :}

        | NAMESPACE
        {: RESULT = new Integer(Axis.NAMESPACE); :}

        | PARENT
        {: RESULT = new Integer(Axis.PARENT); :}

        | PRECEDING
        {: RESULT = new Integer(Axis.PRECEDING); :}

        | PRECEDINGSIBLING
        {: RESULT = new Integer(Axis.PRECEDINGSIBLING); :}

        | SELF
        {: RESULT = new Integer(Axis.SELF); :};

    AbbreviatedStep ::= DOT
        {: RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); :}

        | DDOT
        {: RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); :};

    FilterExpr ::=  PrimaryExpr:primary
        {: RESULT = primary; :}

        | PrimaryExpr:primary Predicates:pp
        {: RESULT = new FilterExpr(primary, pp); :};

    PrimaryExpr ::= VariableReference:vr
        {: RESULT = vr; :}

        | LPAREN Expr:ex RPAREN
        {: RESULT = ex; :}
```

```
| Literal:string
{:

/*
* If the string appears to have the syntax of a QName, store
* namespace info in the literal expression. This is used for
* element-available and function-available functions, among
* others. Also, the default namespace must be ignored.
*/
String namespace = null;
final int index = string.lastIndexOf(':');

if (index > 0) {
    final String prefix = string.substring(0, index);
    namespace = parser._symbolTable.lookupNamespace(prefix);
}
RESULT = (namespace == null) ? new LiteralExpr(string)
     : new LiteralExpr(string, namespace);
:}

     | INT:num
     {:
  long value = num.longValue();
  if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
 RESULT = new RealExpr(value);
  }
  else {
          if (num.doubleValue() == -0)
             RESULT = new RealExpr(num.doubleValue());
          else if (num.intValue() == 0)
             RESULT = new IntExpr(num.intValue());

       else if (num.doubleValue() == 0.0)
             RESULT = new RealExpr(num.doubleValue());
          else
             RESULT = new IntExpr(num.intValue());
  }
     :}

     | REAL:num
     {: RESULT = new RealExpr(num.doubleValue()); :}

     | FunctionCall:fc
     {: RESULT = fc; :};

VariableReference ::= DOLLAR VariableName:varName
     {:
```

```
        // An empty qname prefix for a variable or parameter reference
        // should map to the null namespace and not the default URI.
        SyntaxTreeNode node = parser.lookupName(varName);

        if (node != null) {
          if (node instanceof Variable) {
            RESULT = new VariableRef((Variable)node);
          }
          else if (node instanceof Param) {
            RESULT = new ParameterRef((Param)node);
          }
          else {
            RESULT = new UnresolvedRef(varName);
           }
        }

        if (node == null) {
          RESULT = new UnresolvedRef(varName);
        }
      :};

FunctionCall ::= FunctionName:fname LPAREN RPAREN
      {:

       if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
         RESULT = new CurrentCall(fname);
  }
       else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
         RESULT = new NumberCall(fname, parser.EmptyArgs);
  }
       else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
         RESULT = new StringCall(fname, parser.EmptyArgs);
  }
       else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
         RESULT = new ConcatCall(fname, parser.EmptyArgs);
  }
       else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
         RESULT = new BooleanExpr(true);
  }
       else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {

   RESULT = new BooleanExpr(false);
  }
       else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
         RESULT = new NameCall(fname);
  }
       else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
         RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
```

```
}
    else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
      RESULT = new StringLengthCall(fname, parser.EmptyArgs);
}
    else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
      RESULT = new PositionCall(fname);
}
    else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
      RESULT = new LastCall(fname);
}
    else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
      RESULT = new LocalNameCall(fname);
}
    else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
      RESULT = new NamespaceUriCall(fname);

}
    else {
      RESULT = new FunctionCall(fname, parser.EmptyArgs);
}
   :}

   | FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN
   {:
    if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
      RESULT = new ConcatCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
      RESULT = new NumberCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) {
  parser.setMultiDocument(true);
      RESULT = new DocumentCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
      RESULT = new StringCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
      RESULT = new BooleanCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {

   RESULT = new NameCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
      RESULT = new GenerateIdCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
```

```
        RESULT = new NotCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
        RESULT = new FormatNumberCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
        RESULT = new UnparsedEntityUriCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
        RESULT = new KeyCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
        RESULT = new KeyCall(fname, argl);
        parser.setHasIdCall(true);
    }
        else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname))
    {
        RESULT = new CeilingCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
        RESULT = new RoundCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
        RESULT = new FloorCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
        RESULT = new ContainsCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
        RESULT = new StringLengthCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
        RESULT = new StartsWithCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
        RESULT = new FunctionAvailableCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname))
    {
        RESULT = new ElementAvailableCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
        RESULT = new LocalNameCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
        RESULT = new LangCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
```

```
          RESULT = new NamespaceUriCall(fname, argl);
    }
        else if (parser.getQName(Constants.TRANSLET_URI, "xsltc", "cast").equals(fname)) {
          RESULT = new CastCall(fname, argl);
    }
    // Special case for extension function nodeset()
        else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
      parser.setCallsNodeset(true);  // implies MultiDOM
          RESULT = new FunctionCall(fname, argl);
    }
        else {
          RESULT = new FunctionCall(fname, argl);
    }
    :};

NonemptyArgumentList
 ::= Argument:arg
      {:
        Vector temp = new Vector();
        temp.addElement(arg);
        RESULT = temp;
      :}

      | Argument:arg COMMA NonemptyArgumentList:argl
      {: argl.insertElementAt(arg, 0); RESULT = argl; :};

FunctionName ::= QName:fname
      {:
     RESULT = fname;
 :};

VariableName ::= QName:vname
      {:
     RESULT = vname;
 :};

Argument ::= Expr:ex
      {: RESULT = ex; :};

NodeTest ::= NameTest:nt
      {: RESULT = nt; :}

      | NODE
      {: RESULT = new Integer(NodeTest.ANODE); :}

      | TEXT
      {: RESULT = new Integer(NodeTest.TEXT); :}
```

```
      | COMMENT
      {: RESULT = new Integer(NodeTest.COMMENT); :}

      | PIPARAM LPAREN Literal:l RPAREN
      {:
        QName name = parser.getQNameIgnoreDefaultNs("name");
        Expression exp = new EqualityExpr(Operators.EQ,
                                  new NameCall(name),
                                   new LiteralExpr(l));
        Vector predicates = new Vector();
        predicates.addElement(new Predicate(exp));
        RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
      :}

      | PI
      {: RESULT = new Integer(NodeTest.PI); :};

NameTest ::= STAR
          {: RESULT = null; :}

          | QName:qn
          {: RESULT = qn; :};

QName ::= QNAME:qname
      {: RESULT = parser.getQNameIgnoreDefaultNs(qname); :}

 | DIV
      {: RESULT = parser.getQNameIgnoreDefaultNs("div"); :}

      | MOD
      {: RESULT = parser.getQNameIgnoreDefaultNs("mod"); :}

      | KEY
      {: RESULT = parser.getQNameIgnoreDefaultNs("key"); :}

      | ANCESTOR
      {: RESULT = parser.getQNameIgnoreDefaultNs("child"); :}

      | ANCESTORORSELF
      {: RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self"); :}

      | ATTRIBUTE
      {: RESULT
 = parser.getQNameIgnoreDefaultNs("attribute"); :}

      | CHILD
      {: RESULT = parser.getQNameIgnoreDefaultNs("child"); :}
```

```
      | DESCENDANT
      {: RESULT = parser.getQNameIgnoreDefaultNs("decendant"); :}

      | DESCENDANTORSELF
      {: RESULT = parser.getQNameIgnoreDefaultNs("decendant-or-self"); :}

      | FOLLOWING
      {: RESULT = parser.getQNameIgnoreDefaultNs("following"); :}

      | FOLLOWINGSIBLING
      {: RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); :}

      | NAMESPACE
      {: RESULT = parser.getQNameIgnoreDefaultNs("namespace"); :}

      | PARENT
      {: RESULT = parser.getQNameIgnoreDefaultNs("parent"); :}

      | PRECEDING
      {: RESULT = parser.getQNameIgnoreDefaultNs("preceding"); :}

      | PRECEDINGSIBLING
      {: RESULT = parser.getQNameIgnoreDefaultNs("preceding-sibling"); :}

      | SELF
      {: RESULT = parser.getQNameIgnoreDefaultNs("self"); :}


    | ID
      {: RESULT = parser.getQNameIgnoreDefaultNs("id"); :};
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/xpath.cup
No license file was found, but licenses were detected in source scan.

```
/*
* Licensed to the Apache Software Foundation (ASF) under one
* or more contributor license agreements. See the NOTICE file
* distributed with this work for additional information
* regarding copyright ownership. The ASF licenses this file
* to you under the Apache License, Version 2.0 (the  "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
```

```
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/**
  * Major version number.
  * Version number. This changes only when there is a
  *         significant, externally apparent
 enhancement from
  *         the previous release. 'n' represents the n'th
  *         version.
  *
  *         Clients should carefully consider the implications
  *         of new versions as external interfaces and behaviour
  *         may have changed.
  */
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/Version.java
No license file was found, but licenses were detected in source scan.

```
/*
* Licensed to the Apache Software Foundation (ASF) under one
* or more contributor license agreements. See the NOTICE file
* distributed with this work for additional information
* regarding copyright ownership. The ASF licenses this file
* to you under the Apache License, Version 2.0 (the  "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/**
* This is a special exception that is used to stop parsing when
* search for an element.  For instance, when searching
 for xml:stylesheet
* PIs, it is used to stop the parse once the document element is found.
* @see StylesheetPIHandler
* @xsl.usage internal
*/
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/StopParseException.java
No license file was found, but licenses were detected in source scan.

```
/*
* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements.  See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache License, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License.  You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/*
* $Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $
*/

/*
* @author Jacek Ambroziak
* @author
 Santiago Pericas-Geertsen
* @author Morten Jorgensen
*
*/

package org.apache.xalan.xsltc.compiler;

import java_cup.runtime.Symbol;
%%
%cup
%unicode
%class XPathLexer
%yyeof

%{
      int last;

      void initialize() {
         last = -1;
      }
```

```
static boolean isWhitespace(int c) {
   return (c == ' ' || c == '\t' || c == '\r' || c == '\n'  || c == '\f');
}

/**
 * If symbol is not followed by '::' or '(', then treat it as a
 * name instead of an axis or function (Jira-1912).
 */
Symbol disambiguateAxisOrFunction(int ss) throws Exception {
   // Peek in the input buffer without changing the internal state
   int index = yy_buffer_index;

   // Skip whitespace
   while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
      index++;
   }

   // If end of buffer, can't disambiguate :(

 if (index >= yy_buffer_read) {
      // Can't disambiguate, so return as symbol
      return new Symbol(ss);
   }

   // Return symbol if next token is '::' or '('
   return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':' ||
         yy_buffer[index] == '(') ?
         newSymbol(ss) : newSymbol(sym.QNAME, yytext());
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * name instead of a keyword (Jira-1912).
 */
Symbol disambiguateOperator(int ss) throws Exception {
   switch (last) {
   case -1:    // first token
   case sym.ATSIGN:
   case sym.DCOLON:
   case sym.LPAREN:
   case sym.LBRACK:
   case sym.COMMA:
   case sym.AND:
   case sym.OR:
   case
```

```
sym.MOD:
        case sym.DIV:
        case sym.MULT:
        case sym.SLASH:
        case sym.DSLASH:
        case sym.VBAR:
        case sym.PLUS:
        case sym.MINUS:
        case sym.EQ:
        case sym.NE:
        case sym.LT:
        case sym.LE:
        case sym.GT:
        case sym.GE:
           return newSymbol(sym.QNAME, yytext());
        }
        return newSymbol(ss);
    }

    /**
     * If symbol is first token or if it follows any of the operators
     * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
     * wildcard instead of a multiplication operator
     */
    Symbol disambiguateStar() throws Exception {
       switch (last) {
       case -1:    // first token
       case sym.ATSIGN:
       case sym.DCOLON:
       case sym.LPAREN:
       case sym.LBRACK:
       case sym.COMMA:

case sym.AND:
        case sym.OR:
        case sym.MOD:
        case sym.DIV:
        case sym.MULT:
        case sym.SLASH:
        case sym.DSLASH:
        case sym.VBAR:
        case sym.PLUS:
        case sym.MINUS:
        case sym.EQ:
        case sym.NE:
        case sym.LT:
        case sym.LE:
        case sym.GT:
```

```
        case sym.GE:
           return newSymbol(sym.STAR);
        }
        return newSymbol(sym.MULT);
    }

    Symbol newSymbol(int ss) {
        last = ss;
        return new Symbol(ss);
    }

    Symbol newSymbol(int ss, String value) {
        last = ss;
        return new Symbol(ss, value);
    }

    Symbol newSymbol(int ss, Long value) {
        last = ss;
        return new Symbol(ss, value);
    }

    Symbol newSymbol(int ss, Double value) {
        last = ss;
        return new
 Symbol(ss, value);
    }
%}

%eofval{
return newSymbol(sym.EOF);
%eofval}

%yylexthrow{
Exception
%yylexthrow}

Letter={BaseChar}|{Ideographic}

BaseChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u00FF\u0100-\u0131\u0134-
\u013E\u0141-\u0148\u014A-\u017E\u0180-\u01C3\u01CD-\u01F0\u01F4-\u01F5\u01FA-\u0217\u0250-
\u02A8\u02BB-\u02C1\u0386\u0388-\u038A\u038C\u038E-\u03A1\u03A3-\u03CE\u03D0-
\u03D6\u03DA\u03DC\u03DE\u03E0\u03E2-\u03F3\u0401-\u040C\u040E-\u044F\u0451-\u045C\u045E-
\u0481\u0490-\u04C4\u04C7-\u04C8\u04CB-\u04CC\u04D0-\u04EB\u04EE-\u04F5\u04F8-\u04F9\u0531-
\u0556\u0559\u0561-\u0586\u05D0-\u05EA\u05F0-\u05F2\u0621-\u063A\u0641-\u064A\u0671-\u06B7\u06BA-
\u06BE\u06C0-\u06CE\u06D0-\u06D3\u06D5\u06E5-\u06E6\u0905-\u0939\u093D\u0958-\u0961\u0985-
\u098C\u098F-\u0990\u0993-\u09A8\u09AA-\u09B0\u09B2\u09B6-\u09B9\u09DC-\u09DD\u09DF-
\u09E1\u09F0-\u09F1\u0A05-\u0A0A\u0A0F-\u0A10\u0A13-\u0A28\u0A2A-\u0A30\u0A32-\u0A33\u0A35-
\u0A36\u0A38-\u0A39\u0A59-\u0A5C\u0A5E\u0A72-\u0A74\u0A85-\u0A8B\u0A8D\u0A8F-\u0A91\u0A93-
```

\u0AA8\u0AAA-\u0AB0\u0AB2-\u0AB3\u0AB5-\u0AB9\u0ABD\u0AE0\u0B05-\u0B0C\u0B0F-\u0B10\u0B13-
\u0B28\u0B2A-\u0B30\u0B32-\u0B33\u0B36-\u0B39\u0B3D\u0B5C-\u0B5D\u0B5F-\u0B61\u0B85-
\u0B8A\u0B8E-\u0B90\u0B92-\u0B95\u0B99-\u0B9A\u0B9C\u0B9E-\u0B9F\u0BA3-\u0BA4\u0BA8-
\u0BAA\u0BAE-\u0BB5\u0BB7-\u0BB9\u0C05-\u0C0C\u0C0E-\u0C10\u0C12-\u0C28\u0C2A-\u0C33\u0C35-
\u0C39\u0C60-\u0C61\u0C85-\u0C8C\u0C8E-\u0C90\u0C92-\u0CA8\u0CAA-\u0CB3\u0CB5-
\u0CB9\u0CDE\u0CE0-\u0CE1\u0D05-\u0D0C\u0D0E-\u0D10\u0D12-\u0D28\u0D2A-\u0D39\u0D60-
\u0D61\u0E01-\u0E2E\u0E30\u0E32-\u0E33\u0E40-\u0E45\u0E81-\u0E82\u0E84\u0E87-
\u0E88\u0E8A\u0E8D\u0E94-\u0E97\u0E99-\u0E9F\u0EA1-\u0EA3\u0EA5\u0EA7\u0EAA-\u0EAB\u0EAD-
\u0EAE\u0EB0\u0EB2-\u0EB3\u0EBD\u0EC0-\u0EC4\u0F40-\u0F47\u0F49-\u0F69\u10A0-\u10C5\u10D0-
\u10F6\u1100\u1102-\u1103\u1105-\u1107\u1109\u110B-\u110C\u110E-
\u1112\u113C\u113E\u1140\u114C\u114E\u1150\u1154-\u1155\u1159\u115F-
\u1161\u1163\u1165\u1167\u1169\u116D-\u116E\u1172-\u1173\u1175\u119E\u11A8\u11AB\u11AE-
\u11AF\u11B7-\u11B8\u11BA\u11BC-\u11C2\u11EB\u11F0\u11F9\u1E00-\u1E9B\u1EA0-\u1EF9\u1F00-
\u1F15\u1F18-\u1F1D\u1F20-\u1F45\u1F48-\u1F4D\u1F50-\u1F57\u1F59\u1F5B\u1F5D\u1F5F-\u1F7D\u1F80-
\u1FB4\u1FB6-\u1FBC\u1FBE\u1FC2-\u1FC4\u1FC6-\u1FCC\u1FD0-\u1FD3\u1FD6-\u1FDB\u1FE0-
\u1FEC\u1FF2-\u1FF4\u1FF6-\u1FFC\u2126\u212A-\u212B\u212E\u2180-\u2182\u3041-\u3094\u30A1-
\u30FA\u3105-\u312C\uAC00-\uD7A3]

Ideographic=[\u4E00-\u9FA5\u3007\u3021-\u3029]

CombiningChar=[\u0300-\u0345\u0360-\u0361\u0483-\u0486\u0591-\u05A1\u05A3-\u05B9\u05BB-
\u05BD\u05BF\u05C1-\u05C2\u05C4\u064B-\u0652\u0670\u06D6-\u06DC\u06DD-\u06DF\u06E0-\u06E4\u06E7-
\u06E8\u06EA-\u06ED\u0901-\u0903\u093C\u093E-\u094C\u094D\u0951-\u0954\u0962-\u0963\u0981-
\u0983\u09BC\u09BE\u09BF\u09C0-\u09C4\u09C7-\u09C8\u09CB-\u09CD\u09D7\u09E2-
\u09E3\u0A02\u0A3C\u0A3E\u0A3F\u0A40-\u0A42\u0A47-\u0A48\u0A4B-\u0A4D\u0A70-\u0A71\u0A81-
\u0A83\u0ABC\u0ABE-\u0AC5\u0AC7-\u0AC9\u0ACB-\u0ACD\u0B01-\u0B03\u0B3C\u0B3E-\u0B43\u0B47-
\u0B48\u0B4B-\u0B4D\u0B56-\u0B57\u0B82-\u0B83\u0BBE-\u0BC2\u0BC6-\u0BC8\u0BCA-
\u0BCD\u0BD7\u0C01-\u0C03\u0C3E-\u0C44\u0C46-\u0C48\u0C4A-\u0C4D\u0C55-\u0C56\u0C82-
\u0C83\u0CBE-\u0CC4\u0CC6-\u0CC8\u0CCA-\u0CCD\u0CD5-\u0CD6\u0D02-\u0D03\u0D3E-\u0D43\u0D46-
\u0D48\u0D4A-\u0D4D\u0D57\u0E31\u0E34-\u0E3A\u0E47-\u0E4E\u0EB1\u0EB4-\u0EB9\u0EBB-
\u0EBC\u0EC8-\u0ECD\u0F18-\u0F19\u0F35\u0F37\u0F39\u0F3E\u0F3F\u0F71-\u0F84\u0F86-\u0F8B\u0F90-
\u0F95\u0F97\u0F99-\u0FAD\u0FB1-\u0FB7\u0FB9\u20D0-\u20DC\u20E1\u302A-\u302F\u3099\u309A]

Digit=[\u0030-\u0039\u0660-\u0669\u06F0-\u06F9\u0966-\u096F\u09E6-\u09EF\u0A66-\u0A6F\u0AE6-
\u0AEF\u0B66-\u0B6F\u0BE7-\u0BEF\u0C66-\u0C6F\u0CE6-\u0CEF\u0D66-\u0D6F\u0E50-\u0E59\u0ED0-
\u0ED9\u0F20-\u0F29]

Extender=[\u00B7\u02D0\u02D1\u0387\u0640\u0E46\u0EC6\u3005\u3031-\u3035\u309D-\u309E\u30FC-\u30FE]

NCName=({Letter}|"_"|{NCNameStartChar})({NCNameChar})*

NCNameChar={Letter}|{Digit}|"."|"-"|"_"|{CombiningChar}|{Extender}|{NCNameStartChar}|
\u00B7 | [\u0300-\u036F] | [\u203F-\u2040] | [\u0130-\u0136]

NCNameStartChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u02FF\u0370-
\u037D\u037F-\u1FFF\u200C-\u200D\u2070-\u218F\u2C00-\u2FEF\u3001-\uD7FF\uF900-\uFDCF\uFDF0-

```
\uFFFD] | \u005F |({HighSurrogate}{LowSurrogate})

HighSurrogate=[\uD800-\uDBFF]

LowSurrogate=[\uDC00-\uDFFF]

%%

"*"                 { return disambiguateStar(); }
"/"                 { return newSymbol(sym.SLASH); }
"+"                 { return newSymbol(sym.PLUS); }
"-"                 { return newSymbol(sym.MINUS); }
"div"               { return disambiguateOperator(sym.DIV); }
"mod"               { return disambiguateOperator(sym.MOD); }
"::"                { return newSymbol(sym.DCOLON); }
","                 { return newSymbol(sym.COMMA); }
"@"                 { return newSymbol(sym.ATSIGN); }
".."                { return newSymbol(sym.DDOT); }
"|"
  { return newSymbol(sym.VBAR); }
"$"                 { return newSymbol(sym.DOLLAR); }
"//"                { return newSymbol(sym.DSLASH); }
"="                 { return newSymbol(sym.EQ); }
"!="                { return newSymbol(sym.NE); }
"<"                 { return newSymbol(sym.LT); }
">"                 { return newSymbol(sym.GT); }
"<="                { return newSymbol(sym.LE); }
">="                { return newSymbol(sym.GE); }
"id"                { return disambiguateAxisOrFunction(sym.ID); }
"key"               { return disambiguateAxisOrFunction(sym.KEY); }
"text()"            { return newSymbol(sym.TEXT); }
"text"+[ \t\r\n\f]+"()"  { return newSymbol(sym.TEXT); }
"node()"            { return newSymbol(sym.NODE); }
"node"+[ \t\r\n\f]+"()"  { return newSymbol(sym.NODE); }
"comment()"         { return newSymbol(sym.COMMENT); }
"comment"+[ \t\r\n\f]+"()"  { return newSymbol(sym.COMMENT); }
"processing-instruction"
 { return disambiguateAxisOrFunction(sym.PIPARAM); }
"processing-instruction()"      { return newSymbol(sym.PI); }
"processing-instruction"+[ \t\r\n\f]+"()" { return newSymbol(sym.PI); }
"or"                { return disambiguateOperator(sym.OR); }
"and"               { return disambiguateOperator(sym.AND); }
"child"             { return disambiguateAxisOrFunction(sym.CHILD); }
"attribute"         { return disambiguateAxisOrFunction(sym.ATTRIBUTE); }
"ancestor"          { return disambiguateAxisOrFunction(sym.ANCESTOR); }
"ancestor-or-self"      { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); }
"descendant"        { return disambiguateAxisOrFunction(sym.DESCENDANT); }
"descendant-or-self"    { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); }
```

```
"following"             { return disambiguateAxisOrFunction(sym.FOLLOWING); }
"following-sibling"     { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING);
 }
"namespace"             { return disambiguateAxisOrFunction(sym.NAMESPACE); }
"parent"                { return disambiguateAxisOrFunction(sym.PARENT); }
"preceding"             { return disambiguateAxisOrFunction(sym.PRECEDING); }
"preceding-sibling"     { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); }
"self"                  { return disambiguateAxisOrFunction(sym.SELF); }
"["                     { return newSymbol(sym.LBRACK); }
"]"                     { return newSymbol(sym.RBRACK); }
"("                     { return newSymbol(sym.LPAREN); }
")"                     { return newSymbol(sym.RPAREN); }
"<PATTERN>"             { initialize(); return new Symbol(sym.PATTERN); }
"<EXPRESSION>"          { initialize(); return new Symbol(sym.EXPRESSION); }
\"[^\"]*\"              { return newSymbol(sym.Literal,
       yytext().substring(1, yytext().length() - 1)); }
\'[^\']*\'              { return newSymbol(sym.Literal,
       yytext().substring(1,
 yytext().length() - 1)); }
{Digit}+                { return newSymbol(sym.INT, new Long(yytext())); }
{Digit}+("."{Digit}*)?   { return newSymbol(sym.REAL, new Double(yytext())); }
"."{Digit}+             { return newSymbol(sym.REAL, new Double(yytext())); }
"."                     { return newSymbol(sym.DOT); }
({NCName}":")?{NCName}   { return newSymbol(sym.QNAME, yytext()); }
({NCName}":")?"*"        { return newSymbol(sym.QNAME, yytext()); }
({NCName}":")?"@*"       { return newSymbol(sym.QNAME, yytext()); }
[ \t\r\n\f]             { /* ignore white space. */ }
.                       { throw new Exception(yytext()); }
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/xpath.lex
No license file was found, but licenses were detected in source scan.

```
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```

* limitations under the License.
*/
// Proprietary, built in functions
/** current function string (Proprietary). */

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xpath/compiler/Keywords.java
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* limitations under the License.
*/
// is found, then throw a special exception in order to terminate

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/TransformerFactoryImpl.java
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*/

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/QueuedEvents.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XslAttribute.java
*
 /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/NodeLocator.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToStream.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/MessageHandler.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/KeyIndex.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/ElemDesc.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemForEach.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/patterns/ContextMatchStepPattern.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_zh.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncBoolean.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/NodeSetType.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/CurrentCall.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/TransformerHandlerImpl.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/When.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/SecuritySupport.java
*
 /xalan-2-7-2-sources-jar/org/apache/xpath/axes/WalkingIteratorSorted.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemWhen.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_ja.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/StylesheetPIHandler.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncSubstring.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/TrAXFilter.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncConcat.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_zh_CN.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_ko.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/Function.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/XSLTCSource.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/AttributeIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/StringToIntTable.java
*
 /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/LoadDocument.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ObjectFactory.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/NumeratorFormatter.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_hu.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/SecuritySupport.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_zh.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/Equals.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Pattern.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorExsltFuncResult.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/DOMEnhancedForDTM.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/SecuritySupport.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/MatchingIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncNot.java

*
 /xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLTAttributeDef.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/StringToStringTableVector.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/If.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/ObjectFactory.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/SerializerTraceWriter.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/Lt.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/PrefixResolver.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_en.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToTextSAXHandler.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/StringArrayWrapper.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Choose.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemFallback.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/XalanProperties.java
*
 /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncUnparsedEntityURI.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/KeyIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/DOM2Helper.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/Hashtable.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/UnionIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/NthIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Stylesheet.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_sk.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XSLTC.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessages_pt_BR.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLMessages.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMNodeProxy.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/StartsWithCall.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/ElemContext.java
*
 /xalan-2-7-2-sources-jar/org/apache/xpath/XPathProcessorException.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/NodeCounterGenerator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_zh_TW.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_he.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncRound.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/MethodGenerator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/IntExpr.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Fallback.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessages_ja.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/DOMOrder.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LangCall.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExtensionsTable.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/Minus.java
*
 /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/CharArrayWrapper.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/CastExpr.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessages_pl.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExtensionNamespaceSupport.java

* /xalan-2-7-2-sources-jar/org/apache/xml/utils/ObjectFactory.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/TransletException.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/StringBufferPool.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/And.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToSAXHandler.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_ca.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_pl.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_zh_TW.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/AVTPartXPath.java
*
/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ExtendedLexicalHandler.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/XPathVisitable.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/WhiteSpaceInfo.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/trace/EndSelectionEvent.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncLang.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/DOM2SAX.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_ka.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/TransformerIdentityImpl.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/IntVector.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorGlobalVariableDecl.java
* /xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_tr.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/PredicatedNodeTest.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/compiler/OpCodes.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_hy.java
*
/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemTemplateElement.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LiteralElement.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemTextLiteral.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_de.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Step.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/util/IntegerArray.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_pt_BR.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/objects/XString.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_de.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/DescendantIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToXMLStream.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/objects/XNodeSet.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemText.java
*
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* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_ca.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/QueryParameter.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_es.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorOutputElem.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Param.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/AttributeValueTemplate.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ObjectFactory.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_ru.java
*
 /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/SlotAllocator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Number.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_el.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/TransformerHandlerImpl.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/DOM2TO.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/Stylesheet.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/VariableStack.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMWSFilter.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/FilterExprIteratorSimple.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_zh_CN.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/MultiValuedNodeHeapIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_zh_TW.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemElement.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ConcatCall.java
*
 /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_de.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/ResultNameSpace.java

* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorLRE.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_fr.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/ObjectFactory.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_ja_JP_A.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/Gt.java
* /xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_fr.java
* /xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_cs.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMConfigurationException.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMNodeList.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/Axis.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/XUnresolvedVariable.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncFalse.java
*
/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/SecuritySupport.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_sl.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/AbsoluteIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/CurrentNodeListIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/IllegalCharException.java
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* /xalan-2-7-2-sources-jar/org/apache/xalan/trace/package.html
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/package.html
*
/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/package.html
* /xalan-2-7-2-sources-jar/org/apache/xalan/client/package.html
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/package.html
* /xalan-2-7-2-sources-jar/org/apache/xalan/lib/package.html
* /xalan-2-7-2-sources-jar/org/apache/xpath/domapi/package.html
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/package.html
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/package.html

* /xalan-2-7-2-sources-jar/org/apache/xalan/extensions/package.html
* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/package.html
* /xalan-2-7-2-sources-jar/org/apache/xpath/compiler/package.html
* /xalan-2-7-2-sources-jar/org/apache/xpath/patterns/package.html
* /xalan-2-7-2-sources-jar/org/apache/xpath/package.html
* /xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/package.html
* /xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/package.html
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/package.html
*
 /xalan-2-7-2-sources-jar/org/apache/xpath/objects/package.html
* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/package.html
* /xalan-2-7-2-sources-jar/org/apache/xpath/res/package.html
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*/
/*
* $Id: Version.src 468654 2006-10-28 07:09:23Z minchau $
*/
package org.apache.xml.serializer;

/**
 * Administrative class to keep track of the version number of
* the Serializer release.
* <P>This class implements the upcoming standard of having
* org.apache.project-name.Version.getVersion() be a standard way
* to get version information.</P>
* @xsl.usage general
*/
public final class Version
{
```

```
/**
 * Get the basic version string for the current Serializer.
 * Version String formatted like
 * <CODE>"<B>Serializer</B> <B>Java</B> v.r[.dd| <B>D</B>nn]"</CODE>.
 *
 * Futurework: have this read version info from jar manifest.
 *
 * @return String denoting our current version
 */
public static String getVersion()
{
  return getProduct()+" "+getImplementationLanguage()+" "
       +getMajorVersionNum()+"."+getReleaseVersionNum()+"."
       +( (getDevelopmentVersionNum() > 0) ?
          ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
}

/**
 * Print the processor version to the command
line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
 System.out.println(getVersion());
}

/**
 * Name of product: Serializer.
 */
public static String getProduct()
{
 return "Serializer";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
 return "Java";
}


/**
 * Major version number.
 * Version number. This changes only when there is a
```

```
 *          significant, externally apparent enhancement from
 *          the previous release. 'n' represents the n'th
 *          version.
 *
 *          Clients should carefully consider the implications
 *          of new versions as external interfaces and behaviour
 *          may have changed.
 */
public static int getMajorVersionNum()
{
  return @version.VERSION@;

}

/**
 * Release Number.
 * Release number. This
changes when:
 *          - a new set of functionality is to be added, eg,
 *            implementation of a new W3C specification.
 *          - API or behaviour change.
 *          - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
  return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 *          drop applied to a specific release and contains
 *          fixes for defects reported. It maintains compatibility
 *          with the release and contains no API changes.
 *          When missing, it designates the final and complete
 *          development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
  return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 *          a specific release. D01 is the first development
drop
 *          of a new release.
```

```
 *
 *        Development drops are works in progress towards a
 *        compeleted, final release. A specific development drop
 *        may not completely implement all aspects of a new
 *        feature, which may take several development drops to
 *        complete. At the point of the final drop for the
 *        release, the D suffix will be omitted.
 *
 *        Each 'D' drops can contain functional enhancements as
 *        well as defect fixes. 'D' drops may not be as stable as
 *        the final releases.
 */
public static int getDevelopmentVersionNum()
{
  try {
     if ((new String("@version.DEVELOPER@")).length() == 0)
       return 0;
     else
       return Integer.parseInt("@version.DEVELOPER@");
  } catch (NumberFormatException nfe) {
       return 0;
  }
}
}
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.src
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*/
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java
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*/
// Proprietary
/** The 'document-location()' id (Proprietary). */

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xpath/compiler/FunctionTable.java
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*/
/*
* $Id: XSLProcessorVersion.src 468640 2006-10-28 06:53:53Z minchau $
*/
package org.apache.xalan.processor;

/**
 * Administrative class to keep track of the version number of
* the Xalan release.
* <P>See also: org/apache/xalan/res/XSLTInfo.properties</P>
* @deprecated To be replaced by org.apache.xalan.Version.getVersion()

```
* @xsl.usage general
*/
public class XSLProcessorVersion
{

 /**
  * Print the processor version to the command line.
  *
  * @param argv command line arguments, unused.
  */
 public static void main(String argv[])
 {
   System.out.println(S_VERSION);
 }

 /**
  * Constant name of product.
  */
 public static final String PRODUCT = "Xalan";

 /**
  * Implementation Language.
  */
 public static final String LANGUAGE = "Java";

 /**
  * Major version number.
  * Version number. This changes only when there is a
  *         significant, externally apparent enhancement from
  *         the previous release. 'n' represents the n'th
  *         version.
  *
  *         Clients should carefully consider
 the implications
  *         of new versions as external interfaces and behaviour
  *         may have changed.
  */
 public static final int VERSION = @version.VERSION@;

 /**
  * Release Number.
  * Release number. This changes when:
  *           - a new set of functionality is to be added, eg,
  *             implementation of a new W3C specification.
  *           - API or behaviour change.
  *           - its designated as a reference release.
  */
 public static final int RELEASE = @version.RELEASE@;
```

```
/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 *        drop applied to a specific release and contains
 *        fixes for defects reported. It maintains compatibility
 *        with the release and contains no API changes.
 *        When missing, it designates the final and complete
 *        development drop for a release.
 */
public static final int MAINTENANCE
= @version.MINOR@;

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 *        a specific release. D01 is the first development drop
 *        of a new release.
 *
 *        Development drops are works in progress towards a
 *        compeleted, final release. A specific development drop
 *        may not completely implement all aspects of a new
 *        feature, which may take several development drops to
 *        complete. At the point of the final drop for the
 *        release, the D suffix will be omitted.
 *
 *        Each 'D' drops can contain functional enhancements as
 *        well as defect fixes. 'D' drops may not be as stable as
 *        the final releases.
 */
public static final int DEVELOPMENT = 0;

/**
 * Version String like <CODE>"<B>Xalan</B> <B>Language</B>
 * v.r[.dd| <B>D</B>nn]"</CODE>.
 * <P>Semantics of the version string are
identical to the Xerces project.</P>
 */
public static final String S_VERSION = PRODUCT+" "+LANGUAGE+" "
                        +VERSION+"."+RELEASE+"."
                        +(DEVELOPMENT > 0 ? ("D"+DEVELOPMENT)
                         : (""+MAINTENANCE));

}
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.src

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*/
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XPathLexer.java
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*/
// Attribution to: "Voytenko, Dimitry" <DVoytenko@SECTORBASE.COM>
```

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* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToHTMLStream.java
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* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/Encodings.properties
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/XMLEntities.properties
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_text.properties
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTInfo.properties
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_xml.properties
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Makefile.inc
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_unknown.properties
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/HTMLEntities.properties
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_html.properties
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*/
/**
* Execute the proprietary document-location() function, which returns
* a node set of documents.
* @xsl.usage advanced
 */

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncDoclocation.java
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*/
/*
* $Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $
*/
package org.apache.xalan;

/**
* Administrative
 class to keep track of the version number of
* the Xalan release.
* <P>This class implements the upcoming standard of having
* org.apache.project-name.Version.getVersion() be a standard way
* to get version information.  This class will replace the older
* org.apache.xalan.processor.Version class.</P>
* <P>See also: org/apache/xalan/res/XSLTInfo.properties for
* information about the version of the XSLT spec we support.</P>
* @xsl.usage general
*/
public class Version
{

 /**
  * Get the basic version string for the current Xalan release.
  * Version String formatted like
  * <CODE>"<B>Xalan</B> <B>Java</B> v.r[.dd| <B>D</B>nn]"</CODE>.
  *
  * Futurework: have this read version info from jar manifest.
  *
  * @return String denoting our current version
  */
 public static String getVersion()
 {
   return getProduct()+" "+getImplementationLanguage()+" "
        +getMajorVersionNum()+"."+getReleaseVersionNum()+"."

     +( (getDevelopmentVersionNum() > 0) ?
          ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
```

```
}

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
  System.out.println(getVersion());
}

/**
 * Name of product: Xalan.
 */
public static String getProduct()
{
  return "Xalan";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
  return "Java";
}


/**
 * Major version number.
 * Version number. This changes only when there is a
 *         significant, externally apparent enhancement from
 *         the previous release. 'n' represents the n'th
 *         version.
 *
 *         Clients should carefully consider the implications
 *         of new versions as external interfaces and behaviour
 *
        may have changed.
 */
public static int getMajorVersionNum()
{
  return @version.VERSION@;

}

/**
```

```
 * Release Number.
 * Release number. This changes when:
 *          - a new set of functionality is to be added, eg,
 *            implementation of a new W3C specification.
 *          - API or behaviour change.
 *          - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
  return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 *         drop applied to a specific release and contains
 *         fixes for defects reported. It maintains compatibility
 *         with the release and contains no API changes.
 *         When missing, it designates the final and complete
 *         development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
  return
@version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 *         a specific release. D01 is the first development drop
 *         of a new release.
 *
 *         Development drops are works in progress towards a
 *         compeleted, final release. A specific development drop
 *         may not completely implement all aspects of a new
 *         feature, which may take several development drops to
 *         complete. At the point of the final drop for the
 *         release, the D suffix will be omitted.
 *
 *         Each 'D' drops can contain functional enhancements as
 *         well as defect fixes. 'D' drops may not be as stable as
 *         the final releases.
 */
public static int getDevelopmentVersionNum()
{
  try {
     if ((new String("@version.DEVELOPER@")).length() == 0)
```

```
        return 0;
      else
        return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
  }
}
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/Version.src

1.249 httpcomponents-mime 4.5.3

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1.250 adduser 3.118

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1.251 jakarta-annotation-api 1.3.4

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Source Code

The project maintains the following source code repositories:

 * https://github.com/eclipse-ee4j/common-annotations-api

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* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/CallExpr.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/IntConst.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/AnnotationDefaultAttribute.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformBefore.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/JvstTypeChecker.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/LoaderClassPath.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ParameterAnnotationsAttribute.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Variable.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/CtNewMethod.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/ASTree.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/Mnemonic.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/ClassPool.java
*
 /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ExceptionsAttribute.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/URLClassPath.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/scopedpool/ScopedClassPoolFactory.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/ArrayInit.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/Loader.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformFieldAccess.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/DuplicateMemberException.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/CondExpr.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/ASTList.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Keyword.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformWriteField.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ConstPool.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/Type.java
*

/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/StackMapTable.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/util/HotSwapAgent.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/MemberCodeGen.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/ClassMap.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/CompileError.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/rmi/RemoteException.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ConstantAttribute.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/AccessorMaker.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/SerializedProxy.java
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* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/StringMemberValue.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/ClassMemberValue.java
*
/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/Annotation.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/ShortMemberValue.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/EnumMemberValue.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/MemberValue.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/MemberValueVisitor.java
*
/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/CharMemberValue.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/LongMemberValue.java

1.253 javax-ws-rs-api 2.0

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1.254 commons-logging 1.1

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* /commons-logging-1-1-sources-10-jar/org/apache/commons/logging/Log.java
* /commons-logging-1-1-sources-10-jar/org/apache/commons/logging/impl/LogFactoryImpl.java
* /commons-logging-1-1-sources-10-jar/org/apache/commons/logging/impl/Log4JLogger.java
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1.255 jakarta-ws-rs-api 2.1.5

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

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

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

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

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

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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-spec
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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

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org.eclipse.jetty.toolchain:jetty-schemas

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Source Code
The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jersey

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1.260 txw2 2.3.0

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its purpose remains meaningful.

(For example, a function in a library to compute square roots has
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1.267 libnih 1.0.3

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1.269 libsodium 1.0.1

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1.270 crash 6.1.4

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1.274 jaxb-core 2.3.0

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src/arc4random_unix.h
src/arc4random_win.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
src/getentropy_linux.c
src/getentropy_osx.c
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1.293 pax-utils 1.3.2-r0

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src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S,
mpi/hppa1.1/udiv-qrnnd.S, mpi/hppa1.1/mpih-mul2.S,
mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c,
tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c,
tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

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The ECC code cipher/ecc.c was based on code by Sergi Blanch i Torne,
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1.302 pycurl 7.19.5

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1.303 kubernetes v1.13.0

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package simulator

import (
 "github.com/vmware/govmomi/object"
 "github.com/vmware/govmomi/vim25/methods"
 "github.com/vmware/govmomi/vim25/mo"
 "github.com/vmware/govmomi/vim25/soap"
 "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
 LicenseKey: "00000-00000-00000-00000-00000",
 EditionKey: "eval",
 Name:       "Evaluation Mode",
 Properties: []types.KeyAnyValue{
  {
   Key: "feature",
   Value: types.KeyValue{
    Key:   "serialuri:2",
    Value: "Remote virtual Serial Port Concentrator",
   },
  },
  {
   Key: "feature",
   Value: types.KeyValue{
    Key:   "dvs",
    Value: "vSphere Distributed Switch",
   },
```

```
  },
 },
}

type LicenseManager struct {
 mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference)
 object.Reference {
 m := &LicenseManager{}
 m.Self = ref
 m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

 if Map.IsVPX() {
  am := Map.Put(&LicenseAssignmentManager{}).Reference()
  m.LicenseAssignmentManager = &am
 }

 return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
 body := &methods.AddLicenseBody{
  Res: &types.AddLicenseResponse{},
 }

 for _, license := range m.Licenses {
  if license.LicenseKey == req.LicenseKey {
   body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
   return body
  }
 }

 m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
  LicenseKey: req.LicenseKey,
  Labels:     req.Labels,
 })

 body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

 return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
 body := &methods.RemoveLicenseBody{
  Res: &types.RemoveLicenseResponse{},
 }
```

```
 for i, license := range m.Licenses {
  if
 req.LicenseKey == license.LicenseKey {
   m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
   return body
  }
 }
 return body
}

type LicenseAssignmentManager struct {
 mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault
{
 body := &methods.QueryAssignedLicensesBody{
  Res: &types.QueryAssignedLicensesResponse{},
 }

 // EntityId can be a HostSystem or the vCenter InstanceUuid
 if req.EntityId != "" {
  if req.EntityId != Map.content().About.InstanceUuid {
   id := types.ManagedObjectReference{
    Type:  "HostSystem",
    Value: req.EntityId,
   }

   if Map.Get(id) == nil {
    return body
   }
  }
 }

 body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
  {
   EntityId:        req.EntityId,
   AssignedLicense: EvalLicense,
  },
 }

 return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
 info := EvalLicense
```

```
 info.LicenseKey
 = key
 info.Labels = labels

 return info
}
```

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
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Protocol Buffers for Go with Gadgets

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Go support for Protocol Buffers - Google's data interchange format

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mgo - MongoDB driver for Go

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PACKAGE

package goautoneg
import "bitbucket.org/ww/goautoneg"

HTTP Content-Type Autonegotiation.

The functions in this package implement the behaviour specified in
http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most
 appropriate content_type given the accept header
and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list

of clauses

TYPES

type Accept struct {
  Type, SubType string
  Q   float32
  Params   map[string]string
}
Structure to represent a clause in an HTTP Accept Header

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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```
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import (
 "strings"
)

// LicenseFilePrefix is a list of filename prefixes that indicate it
//  might contain a software license
var LicenseFilePrefix = []string{
 "licence", // UK spelling
 "license", // US spelling
 "copying",
 "unlicense",
 "copyright",
 "copyleft",
 "authors",
 "contributors",
}

// LegalFileSubstring are substrings that indicate the file is likely
// to contain some type of legal declaration.  "legal" is often used
// that it might moved to LicenseFilePrefix
var LegalFileSubstring = []string{
 "legal",
 "notice",
 "disclaimer",
 "patent",
 "third-party",
 "thirdparty",
}

// IsLicenseFile returns true if the filename might be contain a
// software license
func IsLicenseFile(filename string) bool {
 lowerfile := strings.ToLower(filename)
 for _, prefix := range LicenseFilePrefix {
  if strings.HasPrefix(lowerfile, prefix) {
   return true
  }
 }
```

```
 return false
}

// IsLegalFile returns true if the file is likely to contain some type
// of of legal declaration
 or licensing information
func IsLegalFile(filename string) bool {
 lowerfile := strings.ToLower(filename)
 for _, prefix := range LicenseFilePrefix {
  if strings.HasPrefix(lowerfile, prefix) {
   return true
  }
 }
 for _, substring := range LegalFileSubstring {
  if strings.Contains(lowerfile, substring) {
   return true
  }
 }
 return false
}
```

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1.304 apk-tools 2.12.7-r0

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```

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```
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1.306 libtasn 4.13-3

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1.309 shadow 0.1

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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
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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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1.315 tdb 1.44.5

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

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were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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#
This is a Makefile stub which handles the creation of BSD shared
libraries.
#
In order to use this stub, the following makefile variables must be defined.
#
BSDLIB_VERSION = 1.0
BSDLIB_IMAGE = libce
BSDLIB_MYDIR = et
BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

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

```
image:  $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
```

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This is the Debian GNU/Linux prepackaged version of the translation
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written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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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
-
-   Copyright (C) Andrew Tridgell   2005
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Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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1.322 base-files 10.3+deb10u11

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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
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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
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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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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.

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The precise terms and conditions for copying, distribution and modification
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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
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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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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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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
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Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
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6. As an exception to the Sections above, you may also compile or
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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

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

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

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include

anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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 as distribution of the source
code, even though third parties are not
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1.325 alpine-keys 2.4-r0

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1.326 pmylund-go-cache 2.1.0+incompatible

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1.327 golang 1.14.2

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1.328 golang 1.9.2

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*/
/**
    * Checks if this content model has had its min/maxOccurs values reduced for
    * purposes of speeding up UPA.  If
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*/
/**
    * used to check the 3 constraints against each complex type
    * (should be each model group):
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    * Element Declrations Consistent.
    */
```

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* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XMLSerializerMessages.properties
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/message_ja.properties
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/JAXPValidationMessages.properties
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* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASNotationDeclaration.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASObject.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/CharacterDataEditAS.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DOMImplementationAS.java
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 /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASModel.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DocumentAS.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASAttributeDeclaration.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASElementDeclaration.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASEntityDeclaration.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASDataType.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASContentModel.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DOMASWriter.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DocumentEditAS.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASObjectList.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DOMASBuilder.java
*
 /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DOMASException.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/NodeEditAS.java
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* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDocumentInfo.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDElementTraverser.java
*
 /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLErrorHandler.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLFrameElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLEntityDescriptionImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/ShadowedSymbolTable.java

* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/ObjectListImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLImgElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLOptgroupElement.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLInputSource.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLImgElement.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredCDATASectionImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAbstractIDConstraintTraverser.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLTimerElementImpl.java
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/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSParticle.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLWmlElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/AnySimpleDV.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/StringList.java
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* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/CaseInsensitiveMap.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOMImplementation.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultXMLDocumentHandler.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLAnchorElement.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/HTMLSerializer.java
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/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/DefaultNamespaceContext.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/MultipleScopeNamespaceSupport.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaParsingConfig.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XML11NSDTDValidator.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xpointer/XPointerMessageFormatter.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSException.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLMetaElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLQuoteElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/EncodingMap.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/XIncludeTextReader.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMInputImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/ObjectFactory.java
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* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/TeeXMLDocumentFilterImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTableSectionElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/CMStateSet.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/Base64BinaryDV.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/DraconianErrorHandler.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/JAXPValidatorComponent.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTitleElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XML11NonValidatingConfiguration.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/ElementDefinitionImpl.java
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* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLFieldSetElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLCardElementImpl.java
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* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/util/Base64.java
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* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/datatypes/ByteList.java
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* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredAttrImpl.java
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* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/AttrNSImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/datatype/DurationImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLTdElementImpl.java
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* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDScanner.java
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* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLErrorCode.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/DOMResultAugmentor.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/identity/FieldActivator.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/ParentNode.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/XIntPool.java

* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTableCellElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/SchemaSymbols.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/ObjectFactory.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/io/UTF16Reader.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/TextImpl.java
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* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLImageElementImpl.java
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* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/ShortList.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/ListDatatypeValidator.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/StAXEventResultBuilder.java
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* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/DTDGrammar.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredEntityReferenceImpl.java
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* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/XML11NMTOKENDatatypeValidator.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/StartDocumentImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/XMLSerializer.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/identity/KeyRef.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSDDescription.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XMLAttributes.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLHeadElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredEntityImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/StAXDocumentHandler.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/io/Latin1Reader.java
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* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/BooleanDV.java
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* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMMessageFormatter.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/SchemaGrammar.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/grammars/XMLGrammarDescription.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/XSInputSource.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/ValidatedInfo.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/ChildNode.java
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* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/Constants.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/events/MouseEventImpl.java
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* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLDocumentScannerImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/Util.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/XInclude11TextReader.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/DefaultValidationErrorHandler.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLOptgroupElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/SchemaValidatorConfiguration.java
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* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/StAXSchemaParser.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredNotationImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CoreDocumentImpl.java
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* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMErrorImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLAttributesImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAttributeTraverser.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XMLDocumentParser.java
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* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/DatatypeMessageFormatter.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLIElement.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLNoopElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/SecuritySupport.java
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* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/ENTITYDatatypeValidator.java
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* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLTableElementImpl.java
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* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDNotationTraverser.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/grammars/XMLSchemaDescription.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/DOMResultBuilder.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLAnchorElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLModElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLDocumentImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredElementNSImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTableCaptionElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLEntityHandler.java
*
/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/StandardParserConfiguration.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/XSAllCM.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/AttrImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLFieldsetElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLDoElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/RangeToken.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/DOMASBuilderImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/NameNodeListImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLDOMImplementationImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/io/UCSReader.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XIncludeAwareParserConfiguration.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/RevalidationHandler.java
*
/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSValue.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/NodeImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/XML11IDREFDatatypeValidator.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLConfigurationException.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/AttributesProxy.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/ValidatorImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XMLGrammarParser.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLSimpleType.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/SchemaNamespaceSupport.java
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*/
/**
  * DOM Level 3 LS CR - Experimental.
    * Create a new <code>LSParser</code>. The newly constructed parser may
    *
 then be configured by means of its <code>DOMConfiguration</code>
    * object, and used to parse documents by means of its <code>parse</code>
    *  method.
    * @param mode  The <code>mode</code> argument is either
    *   <code>MODE_SYNCHRONOUS</code> or <code>MODE_ASYNCHRONOUS</code>, if
    *   <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
    *   <code>LSParser</code> that is created will operate in synchronous
    *   mode, if it's <code>MODE_ASYNCHRONOUS</code> then the
    *   <code>LSParser</code> that is created will operate in asynchronous
    *   mode.
    * @param schemaType  An absolute URI representing the type of the schema
    *   language used during the load of a <code>Document</code> using the
    *   newly created <code>LSParser</code>. Note that no lexical checking
    *   is done on the absolute URI. In order to create a
    *   <code>LSParser</code> for any kind of schema types (i.e. the
    *   LSParser will be free to use any schema
 found), use the value
    *   <code>null</code>.
    * <p ><b>Note:</b>    For W3C XML Schema [<a href='http://www.w3.org/TR/2001/REC-xmlschema-1-
20010502/'>XML Schema Part 1</a>]
    *   , applications must use the value
    *   <code>"http://www.w3.org/2001/XMLSchema"</code>. For XML DTD [<a
href='http://www.w3.org/TR/2000/REC-xml-20001006'>XML 1.0</a>],
    *   applications must use the value
    *   <code>"http://www.w3.org/TR/REC-xml"</code>. Other Schema languages
    *   are outside the scope of the W3C and therefore should recommend an
    *   absolute URI in order to use this method.
    * @return  The newly created <code>LSParser</code> object. This
```

```
    *   <code>LSParser</code> is either synchronous or asynchronous
    *   depending on the value of the <code>mode</code> argument.
    * <p ><b>Note:</b>     By default, the newly created <code>LSParser</code>
    *    does not contain a <code>DOMErrorHandler</code>, i.e. the value of
    *   the "<a href='http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler'>
     *    error-handler</a>" configuration parameter is <code>null</code>. However, implementations
    *   may provide a default error handler at creation time. In that case,
    *   the initial value of the <code>"error-handler"</code> configuration
    *   parameter on the new created <code>LSParser</code> contains a
    *   reference to the default error handler.
    * @exception DOMException
    *    NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
    *   not supported.
     */
```

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1.335 webapp-runner-main 8.5.15.1

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* /webapp-runner-main-8-5-15-1-sources-jar/webapp/runner/launch/Main.java

1.336 ganymed-ssh2 262

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1.337 stateless4j 2.5.0

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* /stateless4j-2-5-0-sources-jar/com/github/oxo42/stateless4j/delegates/FuncBoolean.java
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1.338 jackson-dataformat-yaml 2.10.1

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1.342 keyutils 1.5.9

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1.343 keyutils 1.5.8

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notice like this when it starts in an interactive mode:

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1.345 gnutls 3.6.7-4+deb10u7

1.345.1 Available under license :

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1.346 openssl 1.1.1n-r0

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1.348 zlib 1.2.12-r0

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1.349 busybox 1.33.1-r7

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1.350 lvm2 2.02.97

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

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1.353 libnsl 2.28

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1.354 xml-apis 1.3.04

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http://www.w3.org/Style/CSS/SAC/
http://www.w3.org/2002/06/sacjava-1.3.zip

The actual DOM Java Language Binding
classes for SMIL came from:
http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/
(both ElementTimeControl.java and TimeEvent.java were taken at revision 1.1)

The actual DOM Java Language Binding classes for SVG 1.1 came from:
http://www.w3.org/TR/SVG11/java.html
xml-commons/java/external/README.sax.txt $Id: README.sax.txt 225954 2002-01-31 23:26:48Z curcuru $

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libraries. However, the Lesser license provides advantages in certain
special circumstances.

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

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

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

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

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

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

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

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

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You may 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

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You may opt to apply the terms of the ordinary GNU General Public
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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
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facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

@enumerate a
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based on the Library,
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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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``copyright'' line and a pointer to where the full notice is found.

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USA.
@end
smallexample

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

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

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

b) You must cause
any work that you distribute or publish, that in
whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

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

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are not derived from the Program,
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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 Program.

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and only if you
received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include

anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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 as distribution of the source
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1.368 jettison 1.3

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1.369 libidn 2.16.840

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1.370 x-crypto 0.6.0

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1.371 upstart 1.13.2

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```
--- upstart-1.13.2.orig/ChangeLog
+++ upstart-1.13.2/ChangeLog
@@ -1,3 +1,15 @@
+2014-09-08  James Hunt  <james.hunt@ubuntu.com>
+
+ * util/telinit.c: Remove UPSTART_TELINIT_U_NO_WAIT check as it
+   shouldn't realistically be needed.
+
+2014-08-21  James Hunt  <james.hunt@ubuntu.com>
+
+ * util/telinit.c: restart_upstart():
+   - Revert to synchronous behaviour coupled with unavoidable
+     poll to ensure telinit only returns once a re-exec has
+     completed (LP: #901038).
+
 2014-09-04  James Hunt  <james.hunt@ubuntu.com>

  * NEWS: Release 1.13.2
--- upstart-1.13.2.orig/conf/rc-sysinit.conf
+++ upstart-1.13.2/conf/rc-sysinit.conf
@@ -6,7 +6,7 @@
 description "System V initialisation compatibility"
 author  "Scott James Remnant <scott@netsplit.com>"

-start on startup
+start on (filesystem and static-network-up) or failsafe-boot
 stop on runlevel

 # Default runlevel, this may be overriden on the kernel command-line
@@
 -23,9 +23,11 @@
 env RUNLEVEL=
 env PREVLEVEL=

+console output
+env INIT_VERBOSE
+
 task

-console owner
 script
```

```
   # Check for default runlevel in /etc/inittab
   if [ -r /etc/inittab ]
--- upstart-1.13.2.orig/conf/rc.conf
+++ upstart-1.13.2/conf/rc.conf
@@ -6,13 +6,23 @@
description "System V runlevel compatibility"
author  "Scott James Remnant <scott@netsplit.com>"

+emits deconfiguring-networking
+emits unmounted-remote-filesystems
+
start on runlevel [0123456]
stop on runlevel [!$RUNLEVEL]

export RUNLEVEL
export PREVLEVEL

+console output
+env INIT_VERBOSE
+
task

-console output
-exec /etc/init.d/rc $RUNLEVEL
+script
+if [ "$RUNLEVEL" = "0" -o "$RUNLEVEL" = "1" -o "$RUNLEVEL" = "6" ]; then
+    status plymouth-shutdown 2>/dev/null >/dev/null && start wait-for-state WAITER=rc WAIT_FOR=plymouth-
shutdown || :
+fi
+/etc/init.d/rc $RUNLEVEL
+end script
--- upstart-1.13.2.orig/configure.ac
+++ upstart-1.13.2/configure.ac
@@ -8,7 +8,7 @@

AC_GNU_SOURCE

-AM_INIT_AUTOMAKE([1.10
- gnu nostdinc check-news color-tests silent-rules])
+AM_INIT_AUTOMAKE([1.10 gnu nostdinc check-news color-tests silent-rules serial-tests])
AM_SILENT_RULES([yes])
AM_MAINTAINER_MODE([enable])

@@ -119,6 +119,15 @@

AM_CONDITIONAL([HAVE_ABI_CHECKER], [test ! -z "$ABI_COMPLIANCE_CHECKER" && test -e
"$srcdir"/lib/abi/"$host_cpu"-"$host_os"/*.abi])
```

```
+AC_ARG_ENABLE(selinux,
+       AS_HELP_STRING([--enable-selinux], [enable SELinux support]),
+       [], [enable_selinux=no])
+
+if test "x$enable_selinux" = "xyes" ; then
+ PKG_CHECK_MODULES(SELINUX, [libselinux])
+ AC_DEFINE(HAVE_SELINUX, 1, [Define if we have SELinux])
+fi
+
# Checks for header files.
AC_CHECK_HEADERS([valgrind/valgrind.h, sys/prctl.h])

--- upstart-1.13.2.orig/debian/README.Debian
+++ upstart-1.13.2/debian/README.Debian
@@ -0,0 +1,200 @@
+upstart
+=======
+
+Upstart is a replacement for the traditional sysvinit package, and
+runs as process #1.  Through upstart, we are able to have an
+event-driven
 process, whilst at the same time retaining compatibility
+for the original sysvinit behaviour.
+
+This file documents how to do a few common operations with the new
+system.
+
+
+Where are initscripts installed?
+--------------------------------
+
+This has not changed, they are installed in /etc/init.d.  See
+/etc/init.d/README.
+
+Important system jobs are no longer shipped as initscripts, but as
+upstart jobs.  These are installed in /etc/init
+
+
+How are initscripts started and stopped?
+----------------------------------------
+
+This has not changed, symlinks are made from the initscript in the
+/etc/init.d directory to the /etc/rc?.d directories.  See
+/etc/init.d/README and /etc/rc?.d/README.
+
+
+What order are initscripts started and stopped in?
+--------------------------------------------------
```

+
+This has not changed, the symlinks are named SNNname or KNNname, where
+NN is a number from 00 to 99. The K scripts are run first in
+numerical order, followed by the S
 scripts in numerical order.
+
+
+How do I find the current/previous runlevel?
+---
+
+This has not changed, use the "runlevel" command. See runlevel(8).
+
+
+How do I change the runlevel?
+----------------------------
+
+This has not changed, use the "telinit" command or just invoke "init"
+directly. See telinit(8).
+
+
+How do I change the default runlevel?
+------------------------------------
+
+If you have an /etc/inittab file, edit it. Locate the following line:
+
+   id:N:initdefault:
+
+Where N is the default runlevel, change this to match.
+
+Most people won't have that file, you can edit /etc/init/rc-sysinit.conf
+and change the following line:
+
+   env DEFAULT_RUNLEVEL=2
+
+
+How do I shutdown the machine?
+-----------------------------
+
+This has not changed, use the "shutdown" command provided by the
+upstart package; you may also use the "reboot"/"halt"/"poweroff"
+commands as a short-cut. See shutdown(8) and reboot(8).
+
+You
 can also press Control-Alt-Delete on a console to reboot the
+machine.
+
+
+How do I change the behaviour of Control-Alt-Delete?

+--
+
+Edit the /etc/init/control-alt-delete.conf file, the line beginning
+"exec" is what upstart will run when this key combination is pressed.
+
+To not do anything, you can simply delete this file.
+
+
+How do I enter single-user mode?
+--------------------------------
+
+This hasn't changed, choose the "(recovery mode)" option from GRUB;
+add "-s", "S" or "single" to the kernel command-line; or from a
+running machine, run "telinit 1" or "shutdown now".
+
+
+How do I reduce the number of gettys?
+-------------------------------------
+
+Also see "How do I change which runlevels gettys are run in?"
+
+In /etc/init there is a file named ttyN.conf for each getty that will be
+started, where N is numbered 1 to 6. Remove any that you do not
+want.
+
+This will not take immediate effect, however you can
 run "stop ttyN"
+to stop one that is running.
+
+
+How do I change getty parameters?
+---------------------------------
+
+In /etc/init there is a file named ttyN.conf for each getty that will be
+started, where N is numbered 1 to 6. Edit these files, the line
+beginning "respawn" is what upstart will run.
+
+This will not take immediate effect, run "stop ttyN" followed by
+"start ttyN" or just kill the running getty to respawn with the new
+parameters.
+
+
+How do I change which runlevels gettys are run in?
+--
+
+In /etc/init there is a file named ttyN.conf for each getty that will be
+started, where N is numbered 1 to 6. Edit these files, there are two
+lines:

+
+   start on runlevel [2345]
+   stop on runlevel [!2345]
+
+Change the set of runlevels to match your taste.
+
+This will not take immediate effect, however you can run "stop ttyN"
+to stop one that is running or "start ttyN" to start one that isn't.
+
+
+How do I increase the
 number of gettys?
+--
+
+In /etc/init there is a file named ttyN.conf for each getty that will be
+started, where N is numbered 1 to 6.
+
+Copy one of these files to a new name, we suggest you simply name it
+after the tty, e.g. "ttyS0".
+
+Edit that file, change the "respawn" line to match your requirements;
+in particular you'll need to change the tty the getty should be run
+on.
+
+This will not take immediate effect, however you can run "start ttyN"
+to start the getty.
+
+
+How do I add a serial console?
+------------------------------
+
+See "How do I increase the number of gettys?"
+
+
+How can I see boot messages on the console?
+---
+
+This is nothing to do with upstart, but I'll answer this anyway.
+Remove "quiet" from the kernel command-line.
+
+To make this permanent, edit /boot/grub/menu.lst and edit the line
+that begins "# defoptions=" (yes, it looks like a comment).
+
+This will change both
 usplash and the LSB init logging.
+
+
+Upstart isn't working, how do I debug it?

```
+-----------------------------------------
+
+Add "--debug" to the kernel command-line, and be sure to remove "quiet"
+and "splash".  You'll now see debugging messages as upstart works.
+
+
+Can I query upstart for a list of jobs?
+---------------------------------------
+
+Yes, "initctl list" will list the known jobs and their status.
+
+
+How do I manually start or stop a job?
+--------------------------------------
+
+Use "start JOB" or "stop JOB".
+
+
+How do I find the status of a job?
+----------------------------------
+
+Use "status JOB".
+
+
+Can I emit an event by hand?
+----------------------------
+
+Yes, "initctl emit EVENT" will emit the named event and cause any
+jobs waiting for it to be started or stopped as appropriate.
--- upstart-1.13.2.orig/debian/changelog
+++ upstart-1.13.2/debian/changelog
@@ -0,0 +1,2152 @@
+upstart (1.13.2-0ubuntu13) vivid; urgency=medium
+
+  * remove running-in-container
 - it is moved to init-system-helpers and
+    made to work also with systemd.  (LP: #1442228)
+
+ -- Serge Hallyn <serge.hallyn@ubuntu.com>  Thu, 09 Apr 2015 18:40:12 -0500
+
+upstart (1.13.2-0ubuntu12) vivid; urgency=medium
+
+  * debian/xsession.d/99upstart:
+    Don't assume that /sbin is in $PATH when calling upstart
+    (LP: #1435492).
+
+ -- Gunnar Hjalmarsson <gunnarhj@ubuntu.com>  Fri, 03 Apr 2015 14:48:00 +0100
+
```

+upstart (1.13.2-0ubuntu11) vivid; urgency=medium
+
+ * Remove /lib/init/apparmor-profile-load, as it is being moved to the
+   init-system-helpers package. Add new dependency on init-system-helpers
+   to transition all current systems. (LP: #1432683)
+
+ -- Serge Hallyn <serge.hallyn@ubuntu.com> Thu, 02 Apr 2015 11:21:23 -0500
+
+upstart (1.13.2-0ubuntu10) vivid; urgency=medium
+
+ * Add upstart-sysv to mirror systemd-sysv behavior if upstart is chosen
+   as the default init daemon: (LP: #1422681)
+   - this fixes upstart not starting only with upstart-bin
 binary due to
+   missing jobs.
+   - upstart now contains upstart-bin binaries.
+   - upstart-bin is a transitional package. Can be deleted in vivid+1.
+   - removed some deprecated transition path for both debian and ubuntu.
+   - ensure grub is updated when upstart-sysv is installed.
+   - always get alternatives init and right default grub entries.
+
+ -- Didier Roche <didrocks@ubuntu.com> Mon, 23 Mar 2015 09:51:12 +0100
+
+upstart (1.13.2-0ubuntu9) vivid; urgency=medium
+
+ * debian/upstart-bin.upstart.cron.daily: Ensure the session uid matches that
+   of the session file itself to stop a user forcing the logrotation of
+   another users logs.
+
+ -- James Hunt <james.hunt@ubuntu.com> Thu, 26 Feb 2015 14:35:41 +0000
+
+upstart (1.13.2-0ubuntu8) vivid; urgency=medium
+
+ * debian/upstart-bin.upstart.cron.daily:
+   - [SECURITY FIX]: Only consider valid session files to avoid possible
+   privilege escalation. Thanks to halfdog for reporting (LP: #1425685).
+
+
 -- James Hunt <james.hunt@ubuntu.com> Thu, 26 Feb 2015 12:34:30 +0000
+
+upstart (1.13.2-0ubuntu7) vivid; urgency=medium
+
+ * Correct upstart-udev-bridge session job start/stop on conditions.
+
+ -- Dimitri John Ledkov <dimitri.j.ledkov@linux.intel.com> Tue, 20 Jan 2015 10:54:54 +0000
+
+upstart (1.13.2-0ubuntu6) vivid; urgency=medium
+

+ * debian/upstart-bin.upstart.cron.daily: Emit "rotate-logs" event direct
+   into session init, by-passing system upstart & session
+   event-bridge. This way session logs will be rotated, even upstart is
+   not system init.
+ * debian/control: make upstart-monitor & upstart-dconf-bridge be
+   installable with just session init, upstart-bin.
+ * extra/upstart-local-bridge: implement systemd pid1 logic.
+ * extra/upstart-event-bridge: make it re-emit upstart-local-bridge
+   events direct.
+ * util/telinit: Revert to synchronous behaviour coupled with unavoidable
+   poll to ensure telinit only returns once a re-exec has completed
 (LP:
+   #901038).
+ * move udev & local bridges to upstart-bin package.
+
+ -- Dimitri John Ledkov <dimitri.j.ledkov@linux.intel.com> Sat, 17 Jan 2015 01:59:42 +0000
+
+upstart (1.13.2-0ubuntu5) vivid; urgency=medium
+
+ * debian/xsession.d/99upstart: Add support for GNOME Flashback
+   session scripts.
+
+ -- Dmitry Shachnev <mitya57@ubuntu.com> Sat, 29 Nov 2014 14:39:07 +0300
+
+upstart (1.13.2-0ubuntu4) vivid; urgency=medium
+
+ * Fix Breaks/Replaces: operator. *brown paperbag*
+
+ -- Martin Pitt <martin.pitt@ubuntu.com> Thu, 20 Nov 2014 07:57:50 +0100
+
+upstart (1.13.2-0ubuntu3) vivid; urgency=medium
+
+ [James Hunt]
+ * debian/user-conf/logrotate.conf: Handle corrupt status files.
+ * init/tests/test_conf_preload.sh.in: Use build-generated libtool to
+   avoid breaking test_conf_preload.sh when the packaged binary moves
+   between packages.
+ * init/Makefile.am: Pass top_builddir to test_conf_preload.sh.in.
+
+ [Dmitry Shachnev]
+ * debian/upstart-xsessions:
 Update for new GNOME Flashback session
+   names (LP: #1383382).
+
+ [Martin Pitt]
+ * Move apparmor-profile-load to upstart-bin. Otherwise, if you try to
+   install e. g. avahi-daemon and systemd-sysv in one go under upstart (as in
+   systemd's autopkgtest), avahi-daemon will fail.

+
+ -- Martin Pitt <martin.pitt@ubuntu.com> Wed, 19 Nov 2014 14:48:48 +0100
+
+upstart (1.13.2-0ubuntu2) utopic; urgency=medium
+
+ * debian/upstart-bin.upstart.cron.daily: Redirect stdout to /dev/null as
+   well, to avoid a daily cron mail with the upstart version.
+
+ -- Martin Pitt <martin.pitt@ubuntu.com> Tue, 30 Sep 2014 07:11:16 +0200
+
+upstart (1.13.2-0ubuntu1) utopic; urgency=medium
+
+ * New upstream release.
+
+ -- James Hunt <james.hunt@ubuntu.com> Thu, 04 Sep 2014 12:32:07 +0100
+
+upstart (1.13.1-0ubuntu4) utopic; urgency=medium
+
+ * debian/upstart-bin.upstart.cron.daily: Only run if upstart is actually
+   active.
+
+ -- Martin Pitt <martin.pitt@ubuntu.com> Thu, 28 Aug
 2014 06:24:03 +0200
+
+upstart (1.13.1-0ubuntu3) utopic; urgency=medium
+
+ * Split upstart package into upstart & upstart-bin. (LP: #1351306)
+
+ -- Dimitri John Ledkov <xnox@ubuntu.com> Wed, 06 Aug 2014 13:07:24 +0100
+
+upstart (1.13.1-0ubuntu2) utopic; urgency=medium
+
+ * Cherry-pick cgmanager text fix from upstream.
+
+ -- James Hunt <james.hunt@ubuntu.com> Mon, 28 Jul 2014 11:22:39 +0100
+
+upstart (1.13.1-0ubuntu1) utopic; urgency=medium
+
+ * New upstream release.
+
+ -- James Hunt <james.hunt@ubuntu.com> Thu, 17 Jul 2014 15:23:18 +0100
+
+upstart (1.13-0ubuntu1) utopic; urgency=medium
+
+ * New upstream release.
+ * Cherry-pick arm64 test_job_process unit test fix.
+
+ -- Dimitri John Ledkov <xnox@ubuntu.com> Mon, 14 Jul 2014 13:57:32 +0100

+
+upstart (1.12.1-0ubuntu11) utopic; urgency=medium
+
+ * Do not fail xsession-init pre-start, if SESSIONTYPE is unset, or
+   setting deprecated gnome-session variable fails for any reason.
+
+ -- Dimitri John Ledkov <xnox@ubuntu.com>
  Fri, 20 Jun 2014 19:07:03 +0100
+
+upstart (1.12.1-0ubuntu10) utopic; urgency=medium
+
+ * Revert spurious +x -> -x change on daily upstart cron file.
+ * Cherrypick reboot command fix to not process REBOOTCOMMAND argument
+   when in runlevels 2-5 and without using force flag. (LP: #1174272)
+
+ -- Dimitri John Ledkov <xnox@ubuntu.com> Fri, 20 Jun 2014 12:09:51 +0100
+
+upstart (1.12.1-0ubuntu9) utopic; urgency=medium
+
+ [Dimitri John Ledkov]
+ * Add libcgmanager-dev build-dependency.
+
+ [Iain Lane]
+ * xsession-init: Set $GNOME_DESKTOP_SESSION_ID if we are launching a
+   gnome-session session. Some applications (Qt4) require this to be set to
+   any value to detect the environment in use. It was historically set by
+   gnome-session but now this is no longer the root of the session so not all
+   user processes are guaranteed to have it. (LP: #1305294)
+
+ -- Dimitri John Ledkov <xnox@ubuntu.com> Fri, 20 Jun 2014 11:13:27 +0100
+
+upstart (1.12.1-0ubuntu8)
 utopic; urgency=medium
+
+ * Drop the 01-upstart-lsb hook as it's now part of lsb.
+
+ -- Stéphane Graber <stgraber@ubuntu.com> Tue, 27 May 2014 16:15:03 +0200
+
+upstart (1.12.1-0ubuntu7) utopic; urgency=medium
+
+ * debian/upstart-xsessions: Run unity8-x11 and unity8-mir sessions in a user
+   session.
+
+ -- Iain Lane <iain.lane@canonical.com> Fri, 16 May 2014 18:13:14 +0100
+
+upstart (1.12.1-0ubuntu6) utopic; urgency=medium
+
+ * Map force-reload to restart command in init-functions hook.

+ * Use variable expansion, instead of basename as that is shipped in
+   /usr.
+ * Resolve test-failure, when dbus user session job is launched
+   accidentally by unit-tests. (LP: #1315767)
+
+ -- Dimitri John Ledkov <xnox@ubuntu.com> Wed, 07 May 2014 20:15:35 +0100
+
+upstart (1.12.1-0ubuntu5) utopic; urgency=medium
+
+ [James Hunt]
+ * debian/manpages/upstart-events.7: Correction for 'rotate-logs'.
+ * debian/upstart.cron.daily: Specify full path to initctl.
+ * init/man/init.8:
 Add missing information on '--chroot-sessions'.
+ * debian/upstart.apport: Sort system and session jobs.
+
+ [Dimitri John Ledkov]
+ * Add lsb initfunctions hook, to transparently execute the upstart job
+   instead of the init.d script, when both are provided. For example this
+   means that e.g. mysql, ssh and other daemons can be operated by
+   invoking init.d script directly in addition to using invoke-rc.d,
+   update-rc.d, service and initctl commands. (Closes: #712763) (LP:
+   #1273462)
+
+ -- Dimitri John Ledkov <xnox@ubuntu.com> Sat, 03 May 2014 04:41:23 +0100
+
+upstart (1.12.1-0ubuntu4) trusty; urgency=medium
+
+ [Adam Conrad]
+ * Disable chroot sessions by default, add an option to enable chroot
+   sessions. (LP: #1277594)
+
+ -- Dimitri John Ledkov <xnox@ubuntu.com> Fri, 11 Apr 2014 22:31:21 +0100
+
+upstart (1.12.1-0ubuntu3) trusty; urgency=medium
+
+ [Steve Langasek]
+ * Rotate user logs daily, not hourly; while we do need them rotated
 more
+   often than once per login in the case of long-lived sessions, once per
+   hour is far too frequent and will cause log data to be rotated off far
+   too quickly.
+
+ [Dimitri John Ledkov]
+ * Clean-up stale child processes in the new initctl reload test case,
+   thus resolving hanging buildds.
+
+ -- Dimitri John Ledkov <xnox@ubuntu.com> Fri, 11 Apr 2014 20:18:50 +0100

```
+
+upstart (1.12.1-0ubuntu2) trusty; urgency=medium
+
+  [ Steve Langasek ]
+  * debian/conf/wait-for-state.conf: suppress stderr from 'grep -q
+    /etc/init/foo.override', since the file may not exist.  LP: #1298938.
+
+  [ James Hunt ] (LP: #1306361)
+  * debian/upstart.cron.hourly: hourly cron job to emit the 'rotate-logs'
+    event.
+  * debian/user-conf/logrotate.conf: Run 1 minute after session startup
+    and whenever the 'rotate-logs' event is emitted.
+  * debian/manpages/upstart-events.7: Add 'rotate-logs' event.
+
+  [ Dimitri John Ledkov ]
+  * Reintroduce previous way of reloading jobs,
 such that "initctl reload"
+    is now backwards compatible with precise upstart (still) running as
+    pid 1 during upgrades. (LP: #1303891)
+  * Add a shebang to debian/upstart.cron.hourly
+
+ -- Dimitri John Ledkov <xnox@ubuntu.com>  Fri, 11 Apr 2014 05:43:53 +0100
+
+upstart (1.12.1-0ubuntu1) trusty; urgency=medium
+
+  [ Dimitri John Ledkov ]
+  * Adjust wait-for-state job to also check .override for "manual" flag.
+
+  [ James Hunt ]
+  * New upstream release.
+
+ -- James Hunt <james.hunt@ubuntu.com>  Tue, 11 Mar 2014 16:11:37 +0000
+
+upstart (1.11-0ubuntu5) trusty; urgency=medium
+
+  * Do not require a specific python3 version.
+
+ -- Matthias Klose <doko@ubuntu.com>  Thu, 20 Feb 2014 11:54:22 +0100
+
+upstart (1.11-0ubuntu4) trusty; urgency=medium
+
+  * No-change rebuild for Python 3.4.
+
+ -- Matthias Klose <doko@ubuntu.com>  Wed, 19 Feb 2014 20:31:46 +0100
+
+upstart (1.11-0ubuntu3) trusty; urgency=medium
+
+  * If present, wait for plymouth to come up in shut-down mode
```

```
 before
+    changing runlevel at shutdown. (LP: #967229)
+
+ -- Dimitri John Ledkov <xnox@ubuntu.com>  Tue, 04 Feb 2014 15:01:47 +0000
+
+upstart (1.11-0ubuntu2) trusty; urgency=low
+
+  [ Steve Langasek ]
+  * Merge Debian packaging changes from 1.10-2.
+
+  [ James Hunt ]
+  * debian/manpages/upstart-events.7: Remove Job States and Job Lifecycle
+    sections since they have been added to init.8 upstream (closes: bug#732125).
+  * debian/manpages/upstart-events.7:
+    - Added missing dbus and dconf events.
+    - Added all inline events to SEE ALSO section for quick reference.
+      (when coupled with latest upstream doc changes, closes: bug#732128).
+  * debian/control: add Build-Depends on libtool for test_conf_preload.sh.
+  * Cherry-pick fix for handling re-exec if job is invalid (LP: #1269731).
+
+ -- James Hunt <james.hunt@ubuntu.com>  Tue, 21 Jan 2014 11:50:09 +0000
+
+upstart (1.10-2) unstable; urgency=low
+
+  * init/tests/test_state.c: fix test case to not assume SIGUSR1
 == 10;
+    the numeric value may vary between platforms, what we actually care
+    about is making sure that the deserialization output matches what was in
+    the json - so check the numeric value, NOT the symbolic signal name.
+    LP: #1254326.
+  * init/tests/test_log.c: don't assume the root filesystem is not writable.
+    If we want to make sure log data stays in the buffer instead of being
+    flushed to disk, create a log file that we control and know can't be
+    written to.
+
+ -- Steve Langasek <vorlon@debian.org>  Sat, 23 Nov 2013 22:17:35 +0000
+
+upstart (1.10-1) unstable; urgency=low
+
+  * New upstream release.
+    - fixes racy test utmp test case.  Closes: #722572.
+    - drop changes to init/job_class.[ch] process priority handling in favor
+      of upstream version.
+  * Pull in Ubuntu packaging changes:
+    - add INIT_VERBOSE to rc*.conf, overlooked in the previous merge.
+    - call dh-autoreconf, adding build-depends on dh-autoreconf and autopoint.
+
```

```
  - update debian/copyright.
+   - add upstart-monitor package.
+   - migrate to python3.
+   - use "serial-tests" harness during build, instead of automake1.13's
+     default "parallel-tests" harness; and build-depend on automake
+     (>= 1.12) for this interface.
+   - Enable parallel build.
+   - Enable initial autopkgtests, just doing a package build and rerunning
+     the test suite.
+   - Add upstart-dconf-bridge package.
+   - Silence running-in-container when called from apparmor-profile-load.
+   - Hard-code a dependency on libjson0 (>= 0.10-1.2), the first version of
+     the package that installs to /lib instead of /usr/lib.
+   - Add postinst to handle stateful reexec on upgrade, and depend on
+     debianutils for ischroot(1).
+   - Add libupstart1 and libupstart1-dev packages.
+   - debian/manpages/upstart-events.7: Update for Session Init events.
+   - use verbose build (disable silent rules) by default.
+   - disable upstream build-time abi check.
+
  - don't install upstart-event-bridge or upstart-dconf bridge jobs.
+   - install an apport hook.
+   - debian/source/options: Ignore gmo files we rebuild anyway.
+   - include changes to debian/upstart-job, which in practice should never
+     be used in Debian.
+   - init/apparmor.c: do not load apparmor if running in a container or a
+     live cd.
+   - init/job_process.c: don't fail if the security profile failed to load.
+   - drop no longer used util/tests/test_user_sessions.sh.
+ * For now, do not pull in packaging changes to include upstart user
+   sessions.
+ * Reorder the postinst to avoid calling initctl from a chroot on upgrade,
+   as this has side-effects of triggering upstart chroot sessions.
+ * Lose the unnecessary postinst boilerplate.
+ * init/tests/test_job_process.c: adjust test case to not key on the text
+   of error messages which will vary depending on whether /bin/sh is
+   dash or bash; and use TEST_STR_MATCH so that in the event of future
+
  failures, we know why it's failing.
+ * Drop the hard-coded dep on sysv-rc; we already depend on initscripts
+   which depends on sysv-rc | file-rc, and file-rc now has upstart support,
+   so we don't need to force users to choose between upstart and file-rc.
+   Closes: #709483.
+
+ -- Steve Langasek <vorlon@debian.org>  Thu, 21 Nov 2013 21:43:26 +0000
+
+upstart (1.11-0ubuntu1) trusty; urgency=low
+
```

+ [Dmitrijs Ledkovs]
+ * Run as much test-suites as possible, before exiting with failure.
+
+ [James Hunt]
+ * New upstream release.
+   - the global environment is now serialized on re-exec. LP: #1238078.
+   - fixes support for upstart-file-bridge detecting directory creation.
+   LP: #1221466.
+   - Fixes upstart user session to not override the user's configured
+   umask. LP: #1240686.
+   - Makes the session init available on the session dbus.
+   LP: #1203595, #1235649.
+
+ [Steve Langasek]
+ * Document the authoritative Vcs branch in debian/control.
+
   * Update Standards-Version to 3.9.5, no changes required.
+
+ -- James Hunt <james.hunt@ubuntu.com> Fri, 15 Nov 2013 13:16:56 +0000
+
+upstart (1.10-0ubuntu9) trusty; urgency=low
+
+ [Dmitrijs Ledkovs]
+ * If check target fails, cat test-suite log files to standard output
+   such that they are saved as part of build-log.
+
+ [Jonathan Davies]
+ * debian/rules: Set --enable-selinux in configure flags.
+ * debian/control: Set build-dependency on libselinux1-dev.
+
+ -- Steve Langasek <steve.langasek@ubuntu.com> Wed, 06 Nov 2013 22:15:18 -0800
+
+upstart (1.10-0ubuntu8) trusty; urgency=low
+
+ * debian/upstart.apport:
+   - Handle 'RecoverableProblem' and 'Hang' problem types (LP: #1238058).
+   - Cleanup now that lp bug 1154536 is fixed.
+
+ [Steve Langasek]
+ * Build-Depend on python3:any for cross-build support.
+
+ [Dmitrijs Ledkovs]
+ * Remove uevent blacklist now that udevd was fixed not to spam on
+   maguro.
+
+ [Steve Langasek]
+ * extra/upstart-socket-bridge.c:

Cherry-pick fix from upstream for
+   upstart-socket-bridge to also not clobber PATH, using SOCKET_PATH
+   instead. LP: #1235480.
+
+ -- Steve Langasek <steve.langasek@ubuntu.com> Wed, 23 Oct 2013 23:59:20 -0700
+
+upstart (1.10-0ubuntu7) saucy; urgency=low
+
+ * Ignore emitting specific udev event spam on maguro, as a workaround
+   for LP: #1235649.
+
+ -- Dmitrijs Ledkovs <dmitrij.ledkov@ubuntu.com> Wed, 09 Oct 2013 13:52:10 +0100
+
+upstart (1.10-0ubuntu6) saucy; urgency=low
+
+ * extra/upstart-local-bridge.c: use SOCKET_PATH in our event
+   environment, instead of clobbering PATH. (LP: #1235480)
+
+ -- Steve Langasek <steve.langasek@ubuntu.com> Fri, 04 Oct 2013 14:45:40 -0700
+
+upstart (1.10-0ubuntu5) saucy; urgency=low
+
+ * extra/conf/upstart-file-bridge.conf: fix the start condition to
+   comply with the intent, that we start the file bridge only once
+   the filesystem is up. (LP: #1235387)
+
+ -- Steve Langasek <steve.langasek@ubuntu.com>
  Fri, 04 Oct 2013 11:35:18 -0700
+
+upstart (1.10-0ubuntu4) saucy; urgency=low
+
+ [James Hunt]
+ * upstart-local-bridge: allow input to be set of pairs (LP: #1234898)
+
+ [Dmitrijs Ledkovs]
+ * upstart-file-bridge: start session bridge on started dbus. (LP:
+   #1234841)
+
+ -- Dmitrijs Ledkovs <dmitrij.ledkov@ubuntu.com> Fri, 04 Oct 2013 15:25:21 +0100
+
+upstart (1.10-0ubuntu3) saucy; urgency=low
+
+ * Cherry-pick upstream fix for test failure (LP: #1089159).
+
+ -- James Hunt <james.hunt@ubuntu.com> Thu, 03 Oct 2013 13:25:23 +0100
+
+upstart (1.10-0ubuntu2) saucy; urgency=low
+

+ [James Hunt]
+ * debian/upstart.apport: Check session state file set before attempting
+   to add an apport tag.
+ * debian/user-conf/logrotate.conf: Move sleep from pre-start to main stanza
+   to ensure session shutdown is fast even in the case where it is triggered
+   soon after login.
+ * Optimise and speed-up session logout (LP: #1227212)
+
+ [Steve Langasek]
+ * Use ${libdir}
 instead of including /usr/share/dpkg/architecture.mk.
+ * Drop manual symlinking of manpages, the upstream rules do this fine
+   for us already.
+
+ -- James Hunt <james.hunt@ubuntu.com> Tue, 01 Oct 2013 14:10:25 +0100
+
+upstart (1.10-0ubuntu1) saucy; urgency=low
+
+ * New upstream release (LP: #1199778, #1200264, #1201865).
+ * debian/user-conf/{re-exec,upstart-file-bridge}.conf: Removed as now
+   supplied by upstream.
+ * debian/upstart.install: Use all upstream-provided session config files.
+ * debian/control: Add upstart-dconf-bridge package.
+ * debian/rules: Remove files from upstart package that now live in the
+   upstart-dconf-bridge package.
+ * debian/upstart-dconf-bridge.install: New.
+ * debian/upstart-dconf-bridge.manpages: New.
+
+ -- James Hunt <james.hunt@ubuntu.com> Mon, 09 Sep 2013 10:22:18 +0100
+
+upstart (1.9.1-0ubuntu5) saucy; urgency=low
+
+ * Turn on Upstart user sessions for all the Ubuntu flavours.
+
+ -- Stéphane Graber <stgraber@ubuntu.com>
  Tue, 27 Aug 2013 10:25:22 -0400
+
+upstart (1.9.1-0ubuntu4) saucy; urgency=low
+
+ [Dmitrijs Ledkovs]
+ * Bump upstart-dbus-bridge conf file removal to 1.9.1-0ubuntu4. (LP: #1203323)
+
+ [James Hunt]
+ * debian/upstart.apport: Check to ensure that the sessions array contains
+   atleast one element.
+
+ -- Dmitrijs Ledkovs <dmitrij.ledkov@ubuntu.com> Fri, 23 Aug 2013 11:43:40 +0100
+

+upstart (1.9.1-0ubuntu3) saucy; urgency=low
+
+ * Fix stateful re-exec with multiple stale chroot sessions (LP: #1199778)
+
+ -- Dmitrijs Ledkovs <dmitrij.ledkov@ubuntu.com> Sat, 20 Jul 2013 00:17:07 +0100
+
+upstart (1.9.1-0ubuntu2) saucy; urgency=low
+
+ [Dmitrijs Ledkovs]
+ * Upload to saucy.
+
+ [James Hunt]
+ * Fix stateful re-exec with active chroot sessions (LP: #1199778)
+
+ [Colin Watson]
+ * Alternatively try new and old pkg-config names for json-c library.
+
+ -- Dmitrijs Ledkovs <dmitrij.ledkov@ubuntu.com> Thu, 18 Jul 2013 10:56:31 +0100
+
+upstart (1.9.1-0ubuntu1)
 saucy; urgency=low
+
+ [James Hunt]
+ * debian/upstart.apport:
+   - Added session count to report ('UpstartRunningSessionCount').
+   - Join Upstart session to ensure 'UpstartRunningSessionJobs' shows
+   session jobs and doesn't default to showing system ones.
+ * debian/copyright: Update year.
+ * New upstream release.
+ * debian/{control,libupstart*}: Add libupstart packaging.
+ * debian/rules:
+   - Delete upstart-dbus-bridge.conf to avoid running it at the system level.
+   - Install libupstart.pc to correct multi-arch location.
+ * debian/upstart.postinst: Handle safe removal of
+   upstart-dbus-bridge.conf (which is not used at the system level).
+ * debian/control: Add build-depends on automake >= 1.12 for serial-tests
+   in configure.ac (LP: #1197529).
+ * debian/libupstart-dev.install: Specify wildcarded path (for multi-arch).
+
+ [Dmitrijs Ledkovs]
+ * Correct libupstart1.symbols, whilst soname is at 1.0.0, all of them
+   first appeared in
 1.9.1 upstream version.
+ * Use dpkg-maintscript-helper to remove obsolete conffiles.
+
+ -- James Hunt <james.hunt@ubuntu.com> Mon, 08 Jul 2013 14:04:28 +0100
+
+upstart (1.9-0ubuntu2) saucy; urgency=low

+
+ * Cherry-pick upstream fix for crashing bridges (LP: #1197225)
+
+ -- Dmitrijs Ledkovs <dmitrij.ledkov@ubuntu.com> Wed, 03 Jul 2013 09:37:35 +0100
+
+upstart (1.9-0ubuntu1) saucy; urgency=low
+
+ [Dmitrijs Ledkovs]
+ * Use dh_auto_build to run the testsuite, as dh_auto_test stopped
+   finding autotools test suite.
+ * Correct typo in upstart postinst (LP: #1195955)
+
+ [James Hunt]
+ * New upstream release.
+ * init/tests/test_conf.c: Remove duplicate define.
+
+ [Stéphane Graber]
+ * Cherry-pick r1498 from upstream upstart to fix incorrect respawn handling
+   for jobs that have shell characters in their expanded command line.
+   (LP: 1181789)
+
+ [Marc Deslauriers]
+ * Added some distro-specific changes:
+   - init/apparmor.c: do not load apparmor if
 running in a container or a
+   live cd.
+   - init/job_process.c: don't fail if the security profile failed to load
+   to emulate current behaviour on Ubuntu.
+
+ -- Dmitrijs Ledkovs <dmitrij.ledkov@ubuntu.com> Tue, 02 Jul 2013 20:14:51 +0100
+
+upstart (1.8-0ubuntu7) saucy; urgency=low
+
+ * Simplify postinst re-exec logic by removing runlevel checks. Now the
+   logic is:
+   - re-exec if lossless stateful re-exec is available
+   - perform partial stateful re-exec, unless running under upstart
+   - re-exec if upgrading from pre dbus capable upstart
+   - do nothing if running from chroot
+   - otherwise hint that init is upgraded
+
+ -- Dmitrijs Ledkovs <dmitrij.ledkov@ubuntu.com> Mon, 17 Jun 2013 14:17:58 +0100
+
+upstart (1.8-0ubuntu6) saucy; urgency=low
+
+ * debian/upstart.postinst:
+   - When only partial stateful re-exec is available, and upgrade is run by
+   cloud-config simply leave init upgraded.

+   - When partial stateful re-exec is not performed
 also leave reboot required marker.
+
+ -- Dmitrijs Ledkovs <dmitrij.ledkov@ubuntu.com> Thu, 13 Jun 2013 14:36:17 +0100
+
+upstart (1.8-0ubuntu5) saucy; urgency=low
+
+ * Change upstart's version string, such that postinst can detect whether
+   the running upstart instance has full serialization fixes.
+ * In postinst, check running upstart for the above version number or 1.9
+   or better and then perform lossless stateful re-execution. Other wise
+   check for runlevels 2-5 and perform partial stateful re-execution.
+
+ -- Dmitrijs Ledkovs <dmitrij.ledkov@ubuntu.com> Tue, 11 Jun 2013 10:51:53 +0100
+
+upstart (1.8-0ubuntu4) saucy; urgency=low
+
+ [James Hunt]
+ * Cherry pick lp:~jamesodhunt/upstart/serialise-remaining-objects (LP:#1124384):
+   - Preserve event blockers during configuration reload.
+   - Serialise & deserialise blocking events during stateful
+   re-execution.
+ * debian/manpages/upstart-events.7: Added ':sys:restarted'.
+ * debian/upstart.postinst:
 Don't re-exec if runlevel is not 2
+   yet (to allow cloud-init to dist-upgrade upstart safeily in early boot).
+
+ [Dmitrijs Ledkovs]
+ * Upload to saucy.
+ * Use "serial-tests" harness during build, instead of the automake's
+   1.13 default "parallel-tests" harness.
+ * Enable parallel build by default.
+
+ -- Dmitrijs Ledkovs <dmitrij.ledkov@ubuntu.com> Thu, 06 Jun 2013 16:15:09 +0100
+
+upstart (1.8-0ubuntu3) saucy; urgency=low
+
+ * Update the Xsession.d scripts to be a bit more generic and work with
+   lxsession as well as gnome-session.
+
+ -- Stéphane Graber <stgraber@ubuntu.com> Fri, 31 May 2013 17:13:15 -0400
+
+upstart (1.8-0ubuntu2) saucy; urgency=low
+
+ [James Hunt]
+ * debian/manpages/upstart-events.7: Added ':sys:restarted'.
+
+ [Stéphane Graber]

+ * Turn on user sessions by default for the 'ubuntu' xsession.
+ * Manually add scripts/man/upstart-monitor.8 as it was missing from the
+   upstream 1.8 tarball.
+
+ -- Stéphane Graber <stgraber@ubuntu.com>
  Fri, 03 May 2013 09:55:36 -0700
+
+upstart (1.8-0ubuntu1) raring; urgency=low
+
+ [James Hunt]
+ * debian/manpages/upstart-events.7: Update for Session Init events
+   and file bridge.
+ * debian/rules: Install apport hook.
+ * debian/upstart.apport: Addition of apport hook to handle PID 1 and
+   Session Init bugs.
+ * debian/upstart.dirs: Remove invalid leading slash and add apport
+   directory.
+ * Cherry-pick man page related fixes from upstream.
+ * debian/control: Create a separate upstart-monitor package and make
+   upstart suggest it.
+ * debian/rules:
+   - Add python3 and associated graphical packages.
+   - Handle man pages.
+ * debian/upstart.install: Add in files not now copied by default
+   now we have a separate upstart-monitor package. Note that initctl2dot
+   and init-checkconf are now correctly installed to /usr/bin rather
+   than /bin.
+ * debian/upstart-monitor.install: New file.
+ * debian/upstart-monitor.manpages: New file.
+
   * debian/upstart.links: New file.
+ * debian/user-conf/upstart-file-bridge.conf: Required as start condition
+   different to system job of same name.
+
+ [Iain Lane]
+ * Set $SESSIONTYPE when emitting the xsession event that specifies the type
+   of session being launched. Currently only gnome-session is supported.
+
+ -- James Hunt <james.hunt@ubuntu.com> Tue, 26 Mar 2013 17:13:12 +0000
+
+upstart (1.7-0ubuntu1b1) raring; urgency=low
+
+ * No-change rebuild against libudev1
+
+ -- Martin Pitt <martin.pitt@ubuntu.com> Wed, 13 Mar 2013 07:02:18 +0000
+
+upstart (1.7-0ubuntu1) raring; urgency=low
+

+ [Stéphane Graber]
+ * New upstream release
+ * Install Xsession hooks and initial set of user jobs. Those will only be
+   used if the user explicitly whitelist the session in /etc/upstart-xsessions
+
+ [James Hunt]
+ * Remove user_sessions DEP-8 test since User Jobs are no longer
+   supported and replace with a dummy test that just forces the
+   tests to run.
+
+
 -- Stéphane Graber <stgraber@ubuntu.com> Thu, 07 Mar 2013 16:16:13 -0500
+
+upstart (1.6.1-1ubuntu3) raring; urgency=low
+
+ * Use verbose build (disable silent rules) by default.
+ * Cherry-pick r1436 to support passing reboot command.
+
+ -- Dmitrijs Ledkovs <dmitrij.ledkov@ubuntu.com> Mon, 25 Feb 2013 15:42:00 +0000
+
+upstart (1.6.1-1ubuntu2) raring; urgency=low
+
+ [Stéphane Graber]
+ * Call autoreconf so we can use the same packaging for snapshots as for
+   release tarballs. Add depends on dh-autoreconf and autopoint.
+
+ [James Hunt]
+ * init/log.c: Cherry-pick of upstream fix for jobs which end before
+   the log disk becomes writeable and which spawn off additional
+   processes which persist after the main job process has ended
+   (LP: #1096531).
+
+ -- James Hunt <james.hunt@ubuntu.com> Tue, 22 Jan 2013 15:18:30 +0000
+
+upstart (1.6.1-1ubuntu1) raring; urgency=low
+
+ [Steve Langasek]
+ * New upstream release.
+ * Merge with Debian.
+   - drop debian/conf/dbus-reconnect.conf
  again, only needed in Debian.
+   - don't build against libselinux; this is probably fine to have in
+   Ubuntu, but this isn't the time to add it.
+   - back down the Debian-specific versioned depends on sysvinit, ifupdown,
+   udev
+ * Export $TERM in init/Makefile.am; the Debian buildds don't set this,
+   which results in test failures because of assumptions that it will be
+   available.

+ * Hard-code a dependency on libjson0 (>= 0.10-1.1ubuntu1), the first
+   version of the package that installs to /lib instead of /usr/lib.
+
+ [James Hunt]
+ * debian/upstart-job: Allow script to operate quietly by reading optional
+   /etc/default/upstart-job configuration. Thanks to Jouko Orava
+   (LP: #613231)
+ * debian/control: Added debianutils for ischroot(1).
+ * debian/upstart.postinst: Enabled stateful re-exec handling in selected
+   upgrade scenarios. Details:
+   - Only query running version if initctl is known to work.
+   - Discard
 initctl stderr just in case.
+   - Do not re-exec if running in a chroot (uses ischroot(1)).
+   - Removed redundent check on previously installed version.
+   - Updated lengthy commentary.
+
+ [Stéphane Graber]
+ * debian/apparmor-profile-load: Ignore output from running-in-container.
+   This prevents the output of running-in-container from being appended to
+   rsyslog's upstart log (and any other job calling apparmor-profile-load).
+
+ [Dmitrijs Ledkovs, James Hunt]
+ * Add DEP-8 autopkgtests.
+
+ -- Steve Langasek <steve.langasek@ubuntu.com> Thu, 15 Nov 2012 09:26:10 -0800
+
+upstart (1.6.1-1) unstable; urgency=low
+
+ * New upstream release.
+ * Declare a Breaks: against old versions of cryptsetup which have upstart
+   jobs named in a way that will deadlock the boot. (Ref: bug #694499)
+ * Make versioned build-dep on json-c (>= 0.10) explicit.
+ * Add debian/conf/dbus-reconnect.conf, to tell upstart to connect to the
+   system bus once dbus is started.
   This is a temporary solution until
+   dbus in Debian has native upstart support.
+
+ -- Steve Langasek <vorlon@debian.org> Mon, 10 Dec 2012 00:28:29 -0800
+
+upstart (1.6-3) unstable; urgency=low
+
+ * init/tests/test_job_process.c: don't test the blocked/ignored signal list
+   in a spawned job; this is not testing the upstart code but the
+   characteristics of the system, and the test is wrong because it assumes
+   the signal lists in /proc/self/status fit in an unsigned long int
+   - patently untrue on mips, where we have 128 signals for historical
+   reasons.

+
+ -- Steve Langasek <vorlon@debian.org> Sun, 18 Nov 2012 12:25:21 -0600
+
+upstart (1.6-2) unstable; urgency=low
+
+ * init/tests/test_job_process.c: cherry-pick upstream fix for test which
+   was accidentally relying on a variable persisting after it's gone out of
+   scope.
+ * init/tests/test_job_process.c: drop change to print path in the test,
+   should be fixed by the above.
+ * init/job_class.[ch]:
 instead of assuming a fixed value (0) as the
+   default nice value for job processes, use whatever the nice value of the
+   current process is. This will be important later for user sessions
+   where an entire session may be started with a higher nice value; and it
+   fixes running the test suite as part of a nice'd build.
+ * init/tests/test_job_class.c: update test suite to match.
+
+ -- Steve Langasek <vorlon@debian.org> Sun, 18 Nov 2012 01:54:29 -0600
+
+upstart (1.6-1) unstable; urgency=low
+
+ * New upstream release.
+ * Add build-dependency on libjson0-dev.
+ * Export $TERM in init/Makefile.am; the Debian buildds don't set this,
+   which results in test failures because of assumptions that it will be
+   available.
+ * init/tests/test_job_process.c: tests are failing to re-exec the test
+   binary on mips for no clear reason; output the path so we can try to
+   debug.
+ * init/tests/test_job_process.c: amd64 build failed with an inscrutible
+   error
 from waitid(). Print errno on failure to try to diagnose this.
+
+ -- Steve Langasek <vorlon@debian.org> Sat, 17 Nov 2012 23:19:37 -0600
+
+upstart (1.5-1) unstable; urgency=low
+
+ * New maintainer.
+ * New upstream release. Closes: #627544.
+ * Drop /etc/init/dbus-reconnect.conf, no longer needed.
+ * Add new jobs from Ubuntu: console, container-detect, failsafe,
+   flush-early-job-log, rcS.conf, shutdown, wait-for-state.
+ * Use 'linux-any' in the architecture check in debian/control, instead of
+   trying to enumerate all non-linux archs. Closes: #634513.
+ * Conflict with lxcguest package (Ubuntu-specific).
+ * Breaks old friendly-recovery (Ubuntu-specific).
+ * Mark upstart multi-arch: foreign.

+ * Add upstart-events(7) manpage from Ubuntu.
+ * Update packaging to dh(1), debian/compat=9 (from Ubuntu).
+ * debian/running-in-container: a script using container.conf to
+   answer whether upstart is running in a container.
+ * refresh soon-to-be-obsolete upstart-job
 helper from Ubuntu.
+ * Add bash-completion support.
+ * Add /var/log/upstart directory and logrotate support.
+ * Don't re-exec init on upgrade, we don't currently support stateful
+   re-exec.
+ * Switch to source format 1.0 for consistency with Ubuntu and for sane(r)
+   VCS handling.
+ * Add versioned dependencies on ifupdown and udev for the prerequisite
+   boot events.
+ * util/shutdown.c: look for sysvinit at /run/initctl before /dev/initctl,
+   so that we're compatible with both the old and new paths used by
+   sysvinit in Debian. Closes: #659540.
+ * Move to bzr for the official package Vcs, for greater synergy with the
+   Ubuntu packaging.
+ * Use copyright-format/1.0 for debian/copyright. This drops Scott from
+   the list of copyright holders, as an individual copyright is not
+   attested in any of the upstream sources.
+
+ -- Steve Langasek <vorlon@debian.org> Mon, 12 Nov 2012 13:38:34 -0800
+
+upstart (1.5-0ubuntu9) quantal-proposed; urgency=low
+
+
  * debian/apparmor-profile-load: exit 0 if apparmor_parser fails to not
+   block upgrades (errors will still be logged by upstart). This can be
+   removed once apparmor_parser better deals with new policy on old kernels
+   - LP: #1058356
+
+ -- Jamie Strandboge <jamie@ubuntu.com> Fri, 12 Oct 2012 13:54:10 -0500
+
+upstart (1.5-0ubuntu8) quantal; urgency=low
+
+ * Merge of latest upstream including doc fixes, fixes for booting
+   on initramfs-less systems and improved error handling in spawn
+   failure scenarios (LP: #980917, #1032101).
+
+ -- James Hunt <james.hunt@ubuntu.com> Wed, 08 Aug 2012 10:05:34 +0100
+
+upstart (1.5-0ubuntu7) precise-proposed; urgency=low
+
+ * Correct a build failure from the previous upload.
+
+ -- Steve Langasek <steve.langasek@ubuntu.com> Thu, 26 Apr 2012 07:48:17 -0700

+
+upstart (1.5-0ubuntu6) precise-proposed; urgency=low
+
+ * debian/upstart.logrotate: don't create empty files after rotation;
+   upstart will automatically create
 new log files for jobs as needed.
+ * init/main.c: restore the fix for bug #540256; we know the console setup
+   is taken care of by plymouth in Ubuntu, so upstart changing the console
+   settings just makes trouble (such as turning echo back on when it
+   shouldn't be). LP: #876626.
+
+ [James Hunt]
+ * debian/upstart-job: Only attempt to handle disabled jobs if the running
+   version of Upstart supports such a query (LP: #985755, #984474).
+ * debian/manpages/upstart-events.7: Fixed typo and corrected reference to
+   'kill signal' stanza.
+
+ -- Steve Langasek <steve.langasek@ubuntu.com> Wed, 25 Apr 2012 13:23:34 -0700
+
+upstart (1.5-0ubuntu5) precise; urgency=low
+
+ * debian/upstart-job: Add in handling for disabled jobs:
+   - Do not restart a job if disabled, unless job was forcibly started.
+   - Do stop a disabled job that was forcibly started.
+   Resolves issue where 'invoke-rc.d restart' erroneously started disabled
+   jobs on package upgrade (LP:
 #974147)
+
+ -- James Hunt <james.hunt@ubuntu.com> Tue, 10 Apr 2012 09:19:03 +0100
+
+upstart (1.5-0ubuntu4) precise; urgency=low
+
+ * debian/apparmor-profile-load: don't run in a container. This can
+   hopefully be removed after stacked profiles are supported and
+   used by lxc. (LP: #978297)
+
+ -- Serge Hallyn <serge.hallyn@ubuntu.com> Tue, 10 Apr 2012 14:55:41 -0500
+
+upstart (1.5-0ubuntu3) precise; urgency=low
+
+ * debian/manpages/upstart-events.7: Correct emitter for
+   "static-network-up" event.
+
+ -- James Hunt <james.hunt@ubuntu.com> Wed, 28 Mar 2012 11:59:56 +0100
+
+upstart (1.5-0ubuntu2) precise; urgency=low
+
+ * debian/conf/flush-early-job-log.conf: Change initctl command from

+   'flush-early-job-log' to 'notify-disk-writeable' to reflect new name.
+ * init/man/init.8: Remove duplicate telinit(8).
+ * debian/manpages/upstart-events.7:
+   - Added table 'Job Goals and State Transitions'.
+   - Corrected errors and omissions in 'Job Lifecycle' section.
+
+
 -- James Hunt <james.hunt@ubuntu.com> Wed, 28 Mar 2012 11:00:04 +0100
+
+upstart (1.5-0ubuntu1) precise; urgency=low
+
+ * FFe. LP: #962124.
+ * New upstream 1.5 release.
+   - fix boot failure when /dev/pts is not mounted before upstart starts.
+   LP: #936667.
+   - fix a file descriptor leak on job restarts. LP: #940290.
+ * debian/conf/failsafe.conf: Added missing "emits" which breaks
+   'initctl check-config'.
+ * debian/manpages/upstart-events.7: Added 'failsafe-boot' and
+   'recovery' events.
+
+ -- James Hunt <james.hunt@ubuntu.com> Thu, 22 Mar 2012 13:50:31 +0000
+
+upstart (1.4-0ubuntu9) precise; urgency=low
+
+ [Steve Langasek]
+ * debian/conf/failsafe.conf: instead of waiting for the 'runlevel' event
+   before considering failsafe done, stop this job as soon as we're
+   starting rc-sysinit; that way, any delays in /etc/rcS.d will not cause
+   confusing messages about networking delays when the network is not the
+   problem. (LP: #950662)
+
+
  [James Hunt]
+ * init/log.c:log_read_watch(): Set remote_closed for scenarios where error
+   handler never called. (LP: #935585)
+
+ [Serge Hally]
+ * debian/conf/power-status-changed.conf: shut down on getting SIGPWR.
+   Unprivileged tasks can't send this signal. In particular this will
+   allow clean shutdown of containers from the host.
+   (See http://www.makelinux.net/man/7/P/power-status-changed)
+
+ [Stéphane Graber]
+ * Rename Serge's job to shutdown.conf to avoid a name conflict with the
+   event power-status-changed.
+
+ -- Stéphane Graber <stgraber@ubuntu.com> Fri, 16 Mar 2012 13:48:04 -0400

+
+upstart (1.4-0ubuntu8) precise; urgency=low
+
+ * init/tests/test_job_process.c:
+   - close_all_files(): Correct type of index variable.
+   - test_run():
+   - "with single line command writing lots of data fast and exiting":
+   - add waitid() call to ensure log is not added to unflushed list.
+   - "with log object freed on process exit":
+
       - add waitid() call to ensure log is not added to unflushed list.
+ * util/tests/test_initctl.c: test_flush_early_job_log():
+   - "with job ending before log disk writeable": Give Upstart a chance
+   to run the job as sometimes we see the job pid in the output which
+   causes the test to fail.
+
+ -- James Hunt <james.hunt@ubuntu.com> Fri, 17 Feb 2012 10:58:02 -0500
+
+upstart (1.4-0ubuntu7) precise; urgency=low
+
+ * debian/manpages/upstart-events.7: Added missing events 'container' and
+   'not-container'.
+ * Update 'runlevel' event emission time in upstart-events(7) (LP: #921501).
+ * Merge of important upstream log fixes to avoid spinning when a job
+   which leaks fds (such as 'sshd -D') is stopped (LP: #926468).
+ * Merge of lp:~jamesodhunt/upstart/early-job-log-flush to allow jobs that
+   _end_ very early in the boot to have their output logged.
+ * debian/conf/flush-early-job-log.conf: Upstart job to force flushing of
+   early job log output data
 when disk becomes writeable.
+ * Re-enable job logging by default.
+
+ [Steve Langasek]
+ * init/tests/test_job_process.c: close all fds before running tests that
+   check for unexpected open fds, so that files leaked from the environment
+   don't cause the test suite to fail gratuitously. LP: #926473.
+ * bump debhelper compat to 9 and adjust debian/rules to use the
+   dpkg-buildflags interfaces, so that upstart can be cross-compiled and
+   also so we pick up any future hardening flags for free.
+
+ -- Steve Langasek <steve.langasek@ubuntu.com> Thu, 16 Feb 2012 07:52:11 +0000
+
+upstart (1.4-0ubuntu6) precise; urgency=low
+
+ [Serge Hallyn]
+ * debian/conf/container-detect.conf: an upstart job to track whether upstart
+   detected itself running in a container.
+ * debian/running-in-container: a script using container.conf to

```
+    answer whether upstart is running in a container.
+  * debian/conf/console.conf: run getty on /dev/console when running
+    in a
 lxc container.
+  * debian/control: conflict with lxcguest.
+
+  [ Stéphane Graber ]
+  * debian/conf/container-detect.conf: extend to also detect OpenVZ and vserver
+    as well as write the type in /run/container_type and emit either:
+    - container CONTAINER=type
+      (where type is lxc, lxc-libvirt, openvz or vserver)
+    - not-container
+  * debian/running-in-container: extend to also print the type of container.
+  * Rebase debian/conf/console.conf on debian/conf/tty1.conf.
+  * Update tty[1234].conf to start on regular machines and LXC containers.
+  * Update tty[56].conf to only start on regular machines.
+
+ -- Stéphane Graber <stgraber@ubuntu.com>  Wed, 08 Feb 2012 16:44:59 -0500
+
+upstart (1.4-0ubuntu5) precise; urgency=low
+
+  * Merge of important upstream log fixes to handle scenario attempts
+    are made to exec(3) directly non-existent commands. (LP: #922754)
+
+ -- James Hunt <james.hunt@ubuntu.com>  Fri, 03 Feb 2012 14:16:40 +0000
+
+upstart (1.4-0ubuntu4) precise;
 urgency=low
+
+  * Disable job logging by default again due to a reported regression with
+    plymouth-upstart-bridge and upstart itself taking 100% CPU.  Use --log
+    at boot time again for testing.
+
+ -- Steve Langasek <steve.langasek@ubuntu.com>  Fri, 27 Jan 2012 11:04:05 -0800
+
+upstart (1.4-0ubuntu3) precise; urgency=low
+
+  [ Stéphane Graber ]
+  * Mark upstart Multi-Arch:foreign
+
+  [ James Hunt ]
+  * Merge of important logger fixes from upstream lp:upstart
+    (LP: #912558).
+  * Reverted temporary fix to disable job logging.
+
+ -- James Hunt <james.hunt@ubuntu.com>  Thu, 26 Jan 2012 15:13:25 +0000
+
+upstart (1.4-0ubuntu2) precise; urgency=low
```

+
+ * init/main.c: Temporarily disable default job logging whilst
+   investigating bug 912558 (can be re-enabled with
+   _temporary_ '--log' option).
+
+ -- James Hunt <james.hunt@ubuntu.com> Fri, 06 Jan 2012 16:11:23 +0000
+
+upstart (1.4-0ubuntu1) precise; urgency=low
+
+ * New upstream 1.4 release.
+ * debian/upstart.dirs:
 Create /var/log/upstart to hold job logs.
+ * debian/upstart.logrotate: Logrotate script for job logs.
+ * po/en@boldquot.gmo, po/en@quot.gmo: Overwrite with upstream versions to
+   keep bzr happy. This makes the files technically "wrong" (since the
+   Ubuntu Upstart code has additional messages not in upstream), but they get
+   re-genrated on build so it all works out.
+ * debian/manpages/upstart-events.7: Add missing 'static-network-up'
+   event (LP: #889047).
+ * debian/manpages/upstart-events.7: Add missing
+   'deconfiguring-networking' event (LP: #904175).
+ * Upstream merge for minor test fixes.
+ * Upstream merge for review fixes.
+ * Merge of upstream fix for running tests in environment not
+   supporting full POSIX SIGCHLD semantics.
+
+ -- James Hunt <james.hunt@ubuntu.com> Thu, 22 Dec 2011 16:51:43 +0000
+
+upstart (1.3-0ubuntu11) oneiric-proposed; urgency=low
+
+ * debian/conf/failsafe.conf: stop on static-network-up, so that a slow
+
 runlevel switch doesn't leave a confusing message on screen about
+   starting up without networking. LP: #881079.
+
+ -- Steve Langasek <steve.langasek@ubuntu.com> Wed, 26 Oct 2011 12:05:47 -0700
+
+upstart (1.3-0ubuntu10) oneiric; urgency=low
+
+ [Clint Byrum]
+ * debian/conf/failsafe.conf: do delay as script, not pre-start, so
+   that the messages/delays are stopped on runlevel immediately. emit
+   as an event, failsafe-boot, to provide finer grained control.
+   (LP: #863864)
+ * conf/rc-sysinit.conf: change from 'started failsafe' to 'failsafe-boot'
+   to accomodate changes to failsafe.conf.
+
+ [Steve Langasek]

+ * Document device-not-ready in upstart-events(7). LP: #805510.
+ * Document desktop-shutdown in upstart-events(7). LP: #854329.
+ * Mention lightdm in the list of example DMs in upstart-events(7), since
+   it's now the default...
+
+ -- Steve Langasek <steve.langasek@ubuntu.com> Mon, 03 Oct 2011 18:37:04 -0700
+
+upstart (1.3-0ubuntu9) oneiric;
 urgency=low
+
+ * Update rcS.conf to only start single user mode but not friendly-recovery.
+   (LP: #575469)
+ * Mark upstart as breaking friendly-recovery << 0.2.13
+
+ -- Stéphane Graber <stgraber@ubuntu.com> Thu, 15 Sep 2011 16:04:17 -0400
+
+upstart (1.3-0ubuntu8) oneiric; urgency=low
+
+ * debian/conf/failsafe.conf: Add plymouth messages to help users
+   understand why the system boot takes longer when they have
+   static network interfaces defined. (LP: #847782)
+
+ -- Clint Byrum <clint@ubuntu.com> Wed, 14 Sep 2011 18:53:10 -0700
+
+upstart (1.3-0ubuntu7) oneiric; urgency=low
+
+ * debian/conf/failsafe.conf: raise timeout to 120 seconds to
+   allow for very slow DHCP interfaces to come up on servers.
+   (LP: #839595)
+
+ -- Clint Byrum <clint@ubuntu.com> Sun, 04 Sep 2011 09:29:27 -0700
+
+upstart (1.3-0ubuntu6) oneiric; urgency=low
+
+ [Steve Langasek]
+ * Fix maintainer field to be compliant with policy definition
+
+ [Clint Byrum]
+ * conf/rc.conf: document
 events that are emitted by sysvinit
+   jobs to quiet 'initctl check-config'
+ * extra/conf/upstart-udev-bridge.conf: narrow definition to
+   only the events actually emitted. (LP: #819928)
+ * debian/conf/failsafe.conf: new job for critical services to
+   start on.
+ * conf/rc-sysinit.conf: start after static-network-up or failsafe
+   so that runlevel 2 is only entered with all static net interfaces
+   up. (LP: #580319)

+
+ -- Clint Byrum <clint@ubuntu.com> Wed, 10 Aug 2011 08:44:43 -0500
+
+upstart (1.3-0ubuntu5) oneiric; urgency=low
+
+ * Upstream cherry-pick for user session fixes
+   ("bzr merge -r 1318..1324 lp:upstart").
+
+ -- James Hunt <james.hunt@ubuntu.com> Mon, 25 Jul 2011 17:09:47 +0100
+
+upstart (1.3-0ubuntu4) oneiric; urgency=low
+
+ * init/main.c: main(): Add support for "/run" directory with fallback to
+   old location for initramfs state passing (LP: #810956).
+ * Upstream cherry-pick to get dbus fix ("bzr merge -r 1314.. lp:upstart").
+
+
 -- James Hunt <james.hunt@ubuntu.com> Wed, 20 Jul 2011 14:51:04 +0100
+
+upstart (1.3-0ubuntu3) oneiric; urgency=low
+
+ * init/paths.h: Synced with upstream since Ubuntu file appears to have
+   diff applied twice, causing redefines.
+
+ -- James Hunt <james.hunt@ubuntu.com> Fri, 17 Jun 2011 09:59:49 +0100
+
+upstart (1.3-0ubuntu2) oneiric; urgency=low
+
+ * init/Makefile.am: Sync up from upstream, dropping TEST define which is
+   no longer required now we set UPSTART_NO_SESSIONS for init/tests/*.c
+   and specify "--no-sessions" for util/tests/*.c.
+
+ -- James Hunt <james.hunt@ubuntu.com> Fri, 17 Jun 2011 09:47:36 +0100
+
+upstart (1.3-0ubuntu1) oneiric; urgency=low
+
+ * Merge of Upstart 1.3 (lp:upstart @ 1.3 release tag).
+
+ -- James Hunt <james.hunt@ubuntu.com> Thu, 16 Jun 2011 15:09:41 +0100
+
+upstart (0.9.7-3) oneiric; urgency=low
+
+ * Merge of upstream lp:~upstart-devel/upstart/0.9: Updates for
+   init-checkconf.
+
+ -- James Hunt <james.hunt@ubuntu.com> Wed,
 27 Apr 2011 15:19:47 +0100
+

+upstart (0.9.7-2) oneiric; urgency=low
+
+ * Add wait-for-state generic "wait job".
+
+ -- Clint Byrum <clint@ubuntu.com> Wed, 04 May 2011 08:32:04 -0700
+
+upstart (0.9.7-1) natty; urgency=low
+
+ * New upstream release 0.9.7: Important session fix (LP: #767053).
+
+ -- James Hunt <james.hunt@ubuntu.com> Wed, 20 Apr 2011 17:44:41 +0100
+
+upstart (0.9.6-1ubuntu1) natty; urgency=low
+
+ [James Hunt]
+ * init/man/init.5: Remove mention of user jobs since facility is
+ disabled.
+
+ [Clint Byrum]
+ * Noting bugs fixed by 0.9.6 release of upstart: (LP: #728531 , LP: #766206)
+
+ -- Clint Byrum <clint@ubuntu.com> Tue, 19 Apr 2011 13:16:46 -0700
+
+upstart (0.9.6-1) natty; urgency=low
+
+ * New upstream release 0.9.6: Important session+chroot fixes.
+
+ -- James Hunt <james.hunt@ubuntu.com> Fri, 15 Apr 2011 15:36:40 +0100
+
+upstart (0.9.5-1ubuntu1) natty; urgency=low
+
+ [Clint Byrum]
+ * debian/upstart-job: change behavior to reload job
 configuration on
+   restart, which more closely matches expected sysvinit script
+   behavior. (LP: #707479)
+
+ -- James Hunt <james.hunt@ubuntu.com> Wed, 06 Apr 2011 17:50:53 +0100
+
+upstart (0.9.5-1) natty; urgency=low
+
+ * New upstream release 0.9.5.
+
+ -- James Hunt <james.hunt@ubuntu.com> Wed, 06 Apr 2011 17:45:38 +0100
+
+upstart (0.9.4-1ubuntu1) natty; urgency=low
+
+ * debian/manpages/upstart-events.7:

```
+    - Corrected reference to Upstart man page (actually init).
+    - Changed to using proper troff quotes.
+    - Escaped dashes in event names.
+    - Updated date.
+    - Table 1:
+      - Improved name.
+      - Sorted columns: Events, References, and Notes.
+      - Added unmounted-remote-filesystems event.
+
+ -- James Hunt <james.hunt@ubuntu.com>  Thu, 24 Mar 2011 14:34:12 +0000
+
+upstart (0.9.4-1) natty; urgency=low
+
+  * New upstream release 0.9.4:
+    - scripts/initctl2dot.py: Fixes to handle 'emits' glob syntax.
+
+ -- James Hunt <james.hunt@ubuntu.com>
  Thu, 24 Mar 2011 14:31:26 +0000
+
+upstart (0.9.3-1) natty; urgency=low
+
+  * New upstream release 0.9.3:
+    - Added missing emits stanzas for supplied .conf files.
+    - Added wildcard/globbing facility to initctl.c (for check-config
+      command).
+    - Updated man page on emits stanza syntax.
+
+ -- James Hunt <james.hunt@ubuntu.com>  Tue, 15 Mar 2011 11:57:11 +0000
+
+upstart (0.9.2-1) natty; urgency=low
+
+  * Merge of upstream lp:~upstart-devel/upstart/0.9.
+
+ -- James Hunt <james.hunt@ubuntu.com>  Fri, 11 Mar 2011 10:34:39 +0000
+
+upstart (0.9.1-1ubuntu5) natty; urgency=low
+
+  * Merge of upstream lp:~upstart-devel/upstart/0.9.
+
+ -- James Hunt <james.hunt@ubuntu.com>  Thu, 10 Mar 2011 14:23:28 +0000
+
+upstart (0.9.1-1ubuntu4) natty; urgency=low
+
+  * Merge of upstream lp:~upstart-devel/upstart/0.9.
+
+ -- James Hunt <james.hunt@ubuntu.com>  Mon, 07 Mar 2011 15:08:35 +0000
+
+upstart (0.9.1-1ubuntu3) natty; urgency=low
```

+
+ * debian/upstart.bash-completion: Fixed
 path so dh_bash-completion
+   considers it a file, not a snippet.
+
+ -- James Hunt <james.hunt@ubuntu.com> Fri, 04 Mar 2011 21:26:27 +0000
+
+upstart (0.9.1-1ubuntu2) natty; urgency=low
+
+ * debian/control: Added Suggests for python, graphviz and
+   bash-completion.
+ * debian/rules: Invoke bash-completion add-on explicitly.
+ * debian/manpages/upstart-events.7: New man page.
+ * debian/upstart.bash-completion: Install bash completion.
+ * debian/upstart.manpages: Install upstart-events.7.
+
+ -- James Hunt <james.hunt@ubuntu.com> Fri, 04 Mar 2011 17:16:26 +0000
+
+upstart (0.9.1-1ubuntu1) natty; urgency=low
+
+ * Merge of upstream lp:~upstart-devel/upstart/0.9.
+
+ -- James Hunt <james.hunt@ubuntu.com> Fri, 04 Mar 2011 15:13:35 +0000
+
+upstart (0.9.1-1) natty; urgency=low
+
+ * Merge of upstream lp:~upstart-devel/upstart/0.9.
+
+ -- James Hunt <james.hunt@ubuntu.com> Thu, 03 Mar 2011 20:52:16 +0000
+
+upstart (0.9.0-1ubuntu3) natty; urgency=low
+
+ * Revert dbus/Upstart.conf
 to the version in 0.6.7, disabling user session
+   support until such time as it has comprehensive test suite coverage.
+
+ -- Colin Watson <cjwatson@ubuntu.com> Mon, 28 Feb 2011 20:29:01 +0000
+
+upstart (0.9.0-1ubuntu2) natty; urgency=low
+
+ * Added extra/Makefile.in to avoid build failing. These files need removing
+   at a later date and debian/rules updating to call dh-autoreconf.
+
+ -- James Hunt <james.hunt@ubuntu.com> Thu, 24 Feb 2011 16:39:28 +0000
+
+upstart (0.9.0-1ubuntu1) natty; urgency=low
+
+ * debian/control: Updated for nih version 1.0.3 (required for nih-dbus-tool

+   and DBUS_TYPE_UNIX_FD).
+ * removed binary message catalog files causing build issues:
+   - po/en@boldquot.gmo
+   - po/en@quot.gmo
+
+ -- James Hunt <james.hunt@ubuntu.com> Thu, 24 Feb 2011 16:06:13 +0000
+
+upstart (0.9.0-1) natty; urgency=low
+
+ * New upstream release:
+   - Session support (chroots, sessions and user-session).
+   - Socket bridge.
+   - Override file support.
+
+
 -- James Hunt <james.hunt@ubuntu.com> Thu, 24 Feb 2011 14:22:14 +0000
+
+upstart (0.6.7-7) natty; urgency=low
+
+ * Re-add upstream r977 to allow proper re-exec on shutdown (LP: #672177)
+ * debian/control: adding Breaks on eglibc version that disables
+   telinit u to avoid accidentally installing a version of libc6 that
+   will cause upstart to re-exec and lose its state.
+
+ -- Clint Byrum <clint@ubuntu.com> Fri, 21 Jan 2011 08:39:13 -0800
+
+upstart (0.6.7-6) natty; urgency=low
+
+ * debian/apparmor-profile-load: check for correct AppArmor profile loading
+   interface file (LP: #710649).
+
+ -- Kees Cook <kees@ubuntu.com> Thu, 03 Feb 2011 13:45:32 -0800
+
+upstart (0.6.7-5) natty; urgency=low
+
+ * debian/upstart-job: properly handle jobs that are in state 'start/running'
+   with no PID, by checking only if the goal is 'start'. LP: #603934,
+   #707971.
+
+ -- Steve Langasek <steve.langasek@ubuntu.com> Wed, 26 Jan 2011 14:05:43 -0800
+
+upstart (0.6.7-4)
 natty; urgency=low
+
+ * debian/apparmor-profile-load: allow profiles to be missing for saner
+   packaging integration.
+
+ -- Kees Cook <kees@ubuntu.com> Fri, 14 Jan 2011 13:46:12 -0800

+
+upstart (0.6.7-3) natty; urgency=low
+
+ * debian/rules: make sure apparmor-profile-load is executable.
+
+ -- Kees Cook <kees@ubuntu.com> Wed, 22 Dec 2010 10:55:09 -0800
+
+upstart (0.6.7-2) natty; urgency=low
+
+ * debian/apparmor-profile-load: common AppArmor profile loading helper
+   which can be used by any upstart services, regardless of the state
+   of AppArmor (LP: #692801).
+
+ -- Kees Cook <kees@ubuntu.com> Mon, 20 Dec 2010 16:03:33 -0800
+
+upstart (0.6.7-1) natty; urgency=low
+
+ * New upstream release:
+   - Added manual stanza.
+   - Added debug stanza.
+   - Added start_on, stop_on and emits properties.
+   - Added GoalChanged, StateChanged and Failed signals.
+   - Documentation updates.
+
+ * Added myself as a maintainer.
+
+ -- James Hunt <james.hunt@ubuntu.com>
  Tue, 14 Dec 2010 17:15:57 +0000
+
+upstart (0.6.6-3) maverick; urgency=low
+
+ * Ubuntu seems to have stopped installing Recommends of Build-Depends,
+   add a Build-Depend on dbus. LP: #602130.
+
+ -- Scott James Remnant <scott@ubuntu.com> Thu, 12 Aug 2010 16:38:05 -0400
+
+upstart (0.6.6-2) maverick; urgency=low
+
+ * Apply patch from trunk to use /dev/null when /dev/console is unavailable
+   due to kernel bugs. This isn't a fix for those bugs, but it does work
+   around it for now. LP: #554172.
+
+ -- Scott James Remnant <scott@ubuntu.com> Thu, 12 Aug 2010 09:52:07 -0400
+
+upstart (0.6.6-1ubuntu1) maverick; urgency=low
+
+ * Try buying with -fPIE/-pie on armel again; we have a shiny new armel
+   toolchain and this part of the rules was broken in 0.6.6-1 anyway.

+
+ -- Loïc Minier <loic.minier@ubuntu.com> Fri, 23 Jul 2010 14:54:11 +0200
+
+upstart (0.6.6-1) maverick; urgency=low
+
+ * New upstream release:
+   - All changes were previously merged into this package.
+
+
  * debian/upstart-job:
+   - Fix output for the force-reload command to only refer to reload(8).
+   LP: #532862.
+
+ * Add debian/source/format with "1.0" to be future compatible.
+ * Add missing ${misc:Depends}.
+ * Bump standards version.
+ * Convert rules to dh7 format.
+
+ -- Scott James Remnant <scott@ubuntu.com> Tue, 27 Apr 2010 13:41:18 -0700
+
+upstart (0.6.5-6) lucid; urgency=low
+
+ * Merge fixes from trunk:
+   - double-quoting of NIH_CFLAGS and NIH_DBUS_CFLAGS on --with-local-libnih
+   - document "env KEY" behaviour
+ * conf/rc.conf, conf/rc-sysinit.conf:
+   - enable console output. LP: #548954.
+   - pass value of INIT_VERBOSE from kernel command-line.
+
+ -- Scott James Remnant <scott@ubuntu.com> Thu, 01 Apr 2010 19:25:36 +0100
+
+upstart (0.6.5-5) lucid; urgency=low
+
+ * init/main.c:
+   - Don't change the settings of the foreground console, this is often
+   owned by plymouth and not supposed to be in Canonical Mode; all other
+
  paths have stty sane settings anyway (which these are not), so there
+   really isn't need for init to do this. LP: #540256.
+
+ -- Scott James Remnant <scott@ubuntu.com> Wed, 17 Mar 2010 22:34:55 +0000
+
+upstart (0.6.5-4) lucid; urgency=low
+
+ * debian/control:
+   - change Pre-Depends back to Depends, this was a holdover from when we
+   attempted to make Upstart Essential to solve early sysvinitupstart
+   upgrade issues, we backed out the Essential bit but never the use of

+   Pre-Depends. LP: #527722.
+   - add versioned-dependencies on ifupdown for loopback fix that can
+   prevent initscripts from being run. LP: #527830.
+
+ * Merge patches from trunk to use /proc/self/fd instead of /dev/fd, and
+   to always mount /proc and /sys on boot.
+
+ -- Scott James Remnant <scott@ubuntu.com> Fri, 26 Feb 2010 15:40:58 +0000
+
+upstart (0.6.5-3) lucid; urgency=low
+
+ * udev/upstart-udev-bridge.c: use right variable name, fixing a build
+   failure. (LP: #524484)
+
+
 -- Scott Moser <smoser@ubuntu.com> Fri, 19 Feb 2010 10:21:33 -0500
+
+upstart (0.6.5-2) lucid; urgency=low
+
+ * udev/upstart-udev-bridge.c:
+   - Increase receiving buffer size for uevents so we don't miss any.
+   LP: #504883.
+
+ -- Scott James Remnant <scott@ubuntu.com> Wed, 17 Feb 2010 15:50:40 +0000
+
+upstart (0.6.5-1) lucid; urgency=low
+
+ * New upstream release:
+   - libnih has been separated out into its own project.
+   - "start on" and "stop on" now support != matches. LP: #513035.
+   - Fixed crash in child when unable to spawn job. LP: #451917.
+   - No longer holds /dev/console open so SAK won't kill init. LP: #486005.
+   - Added missing OPTIONS section to init(8). LP: #449883.
+
+ [Scott James Remnant]
+ * Build-depend on libnih-dev, libnih-dbus-dev and nih-dbus-tool to use
+   the separated out libnih.
+   - This has the fix for LP: #436758.
+   - Remove changelog.nih from the doc directory.
+ * Bump udev build-dependency to 147 to
 match upstream.
+ * udev/Makefile.am: Update to use external libnih
+
+ [Johan Kiviniemi]
+ * udev/upstart-udev-bridge.c: Change -device-remove to -device-removed to
+   match -device-added and -device-changed. LP: #516698.
+
+ -- Scott James Remnant <scott@ubuntu.com> Thu, 04 Feb 2010 16:30:10 -0800

+
+upstart (0.6.3-11build1) lucid; urgency=low
+
+ * Rebuild to pick up relaxed dependency on libc6, after checking that
+   __abort_msg is available with the same signature in eglibc 2.11.
+   LP: #508702.
+
+ -- Matthias Klose <doko@ubuntu.com> Mon, 18 Jan 2010 16:10:11 +0100
+
+upstart (0.6.3-11) karmic-proposed; urgency=low
+
+ * Make rc-sysinit.conf wait on the loopback interface, to ensure that the
+   interface is up before we process the scripts in /etc/rc?.d. LP: #461725.
+
+ -- Steve Langasek <steve.langasek@ubuntu.com> Tue, 08 Dec 2009 12:58:37 -0800
+
+upstart (0.6.3-10) karmic; urgency=low
+
+ * Retain the "telinit u" for the case when we're upgrading from pre-0.6
+
   (ie. hardy or jaunty). Whups. LP: #451556.
+
+ -- Scott James Remnant <scott@ubuntu.com> Thu, 15 Oct 2009 17:48:47 +0100
+
+upstart (0.6.3-9) karmic; urgency=low
+
+ * Restore the call to sync() in reboot, have been observing some issues
+   and it looks like ext4 might not be explicitly flushing the disk when
+   remounting read-only.
+
+ -- Scott James Remnant <scott@ubuntu.com> Wed, 14 Oct 2009 16:40:32 +0100
+
+upstart (0.6.3-8) karmic; urgency=low
+
+ * Rather than calling "telinit u" after upgrade, which will lose state,
+   have the umountroot initscript take care of it for us by setting a
+   flag. LP: #441796.
+ * Don't lose the original default runlevel if /etc/inittab exists without
+   an initdefault line. LP: #405847.
+ * Fix "unhandled error" in shutdown when unable to change runlevel,
+   e.g. due to previous Ubiquity bug. LP: #426332.
+ * Merge change from trunk that makes it possible to build Upstart using
+   a previously built copy of nih-dbus-tool,
 especially useful when
+   cross-compiling. LP: #426740.
+ * Merge change from libnih to store our assertion messages in the
+   glibc __abort_msg symbol so apport can pick them up. LP: #429411.
+ * Merge change from libnih to fix compilation issue with eglibc due

+   to changed alphasort() prototype.
+
+ -- Scott James Remnant <scott@ubuntu.com> Wed, 14 Oct 2009 05:34:13 +0100
+
+upstart (0.6.3-7) karmic; urgency=low
+
+ * Ignore initramfs pids that don't exist. LP: #440071.
+   - you still need to ensure that the pid's parent is init, there's no
+   cheap way to test for that.
+ * Remove "console owner" and "console output" from rc scripts.
+ * Try harder to remove dbus-reconnect.conf
+
+ -- Scott James Remnant <scott@ubuntu.com> Fri, 02 Oct 2009 21:09:03 +0100
+
+upstart (0.6.3-6) karmic; urgency=low
+
+ * Don't use "telinit q" to reconnect to D-Bus, since that breaks
+   lots of things. Invent another secret way instead.
+
+ [Steve Langasek]
+ *
 upstart-job's restart target must also not fail when the service is not
+   yet started. LP: #430883.
+
+ -- Scott James Remnant <scott@ubuntu.com> Thu, 01 Oct 2009 15:26:19 +0100
+
+upstart (0.6.3-5) karmic; urgency=low
+
+ * Update autoconf and automake files. LP: #435252.
+
+ -- Scott James Remnant <scott@ubuntu.com> Wed, 23 Sep 2009 14:16:34 -0700
+
+upstart (0.6.3-4) karmic; urgency=low
+
+ [Scott James Remnant]
+ * Reduce the priority of the stopped by/continued by messages so that
+   they are only shown when --verbose on the kernel command-line.
+   LP: #401333.
+ * Add a hack to look for /dev/.initramfs/*.pid files on startup and
+   "fake" start jobs of those names. Basically this means that "status"
+   and "stop" work for things like bootchart and usplash.
+ * Implement a "reload" command in initctl that retrieves the current pid
+   of the job and sends it the HUP signal. LP: #433544.
+
+ [Steve Langasek]
+ * debian/upstart-job:
+   - give proper policy-compliant

behavior of the start command: detect if
+   the job is already running using upstart status, and if so return success.
+   - same for the stop command: return success if the job is already stopped.
+   - when $DPKG_MAINTSCRIPT_PACKAGE is set, don't spit warnings out because
+   it's not the user's fault - we're being invoked by a maintainer script.
+
+ -- Scott James Remnant <scott@ubuntu.com> Tue, 22 Sep 2009 13:56:48 -0700
+
+upstart (0.6.3-3) karmic; urgency=low
+
+ * debian/upstart-job:
+   - force-reload should only send a HUP signal, since it may not be wise
+   to actually restart (cf. dbus)
+
+ -- Scott James Remnant <scott@ubuntu.com> Wed, 16 Sep 2009 00:10:13 +0100
+
+upstart (0.6.3-2) karmic; urgency=low
+
+ FFE LP: #427356.
+
+ * debian/upstart-job:
+   - Remove trailing "s" from file
+   - Support direct invocation better.
+ * udev/upstart-udev-bridge.c:
+   - New tool to capture events from the udev netlink socket and
+   convert into
 upstart events.
+ * conf/rc-sysinit.conf:
+   - Run once all filesystems are mounted, rather than on startup
+ * debian/control:
+   - Add dependency on mountall for the filesystem event.
+
+ -- Scott James Remnant <scott@ubuntu.com> Tue, 15 Sep 2009 03:19:09 +0100
+
+upstart (0.6.3-1) karmic; urgency=low
+
+ * New upstream release:
+   - Fixed assertion when a job exits while stopping. LP: #406408.
+   - Fixed compilation on ia64.
+   - nih-dbus-tool(1) manpage no longer installed.
+
+ -- Scott James Remnant <scott@ubuntu.com> Mon, 03 Aug 2009 23:58:47 +0100
+
+upstart (0.6.2-2) unstable; urgency=low
+
+ * debian/patches/10-ptrace_include_cleanup.patch
+   - Cleanup header includes. Only include ptrace.h in files that actually
+   need it. This also fixes a build failure on ia64.

+ * debian/rules
+   - Run dh_install with --list-missing.
+
+ -- Michael Biebl <biebl@debian.org> Tue, 28 Jul 2009 15:50:20 +0200
+
+upstart (0.6.2-1) karmic; urgency=low
+
+ * New upstream
 release:
+   - Fixed assertion when stopping a job during its starting event.
+   - Fixed fork following to not stop on exec() before fork()
+   - Fixed missing chdir() in crash handler.
+
+ -- Scott James Remnant <scott@ubuntu.com> Wed, 22 Jul 2009 10:39:50 +0100
+
+upstart (0.6.1-1) karmic; urgency=low
+
+ * New upstream release:
+   - Fixed race condition in ptrace() code. LP: #264711.
+   - Fixed runlevel to output "unknown" not "N N". LP: #400248.
+   - Fixed runlevel to prefix error messages with filename. LP: #400241.
+
+ * Provide/Conflict/Replace the agreed "upstart-job" meta-package.
+   LP: #399799.
+ * Bump dpkg dependency to 1.2.16
+
+ -- Scott James Remnant <scott@ubuntu.com> Thu, 16 Jul 2009 18:26:23 +0100
+
+upstart (0.6.0-5) karmic; urgency=low
+
+ * Cherry-pick patch from -r1188 to fix "expect fork" and "expect daemon"
+   LP: #264711.
+
+ -- Scott James Remnant <scott@ubuntu.com> Tue, 14 Jul 2009 15:19:17 +0100
+
+upstart (0.6.0-4) karmic; urgency=low
+
+
  * Don't build the testsuite with -fPIE on armel; LP: #398403.
+
+ -- Loïc Minier <lool@dooz.org> Mon, 13 Jul 2009 22:12:34 +0200
+
+upstart (0.6.0-3) karmic; urgency=low
+
+ * Add Conflicts on older Upstart packages to make update-manager's
+   job easier.
+
+ -- Scott James Remnant <scott@ubuntu.com> Fri, 10 Jul 2009 10:11:21 +0100

+
+upstart (0.6.0-2) karmic; urgency=low
+
+ * Bump D-Bus build dependency to ensure we get the container abandonment
+   patches, and the GIT version bump.
+ * Actually ship /lib/init/upstart-job
+
+ -- Scott James Remnant <scott@ubuntu.com> Thu, 09 Jul 2009 17:29:59 +0100
+
+upstart (0.6.0-1) karmic; urgency=low
+
+ * New upstream release ("How appropriate, you fight like a cow")
+   - my customary changes list since pointless, it's basically a
+   complete rewrite.
+   - Handles /bin/sh symlink disappearing. LP: #65024.
+   - Boot parameters may be passed to init scripts. LP: #74664.
+   - reboot implies --force during shutdown.
  LP: #388738.
+   - reboot no longer iterates /proc/ide. LP: #92685.
+   - much improved documentation. LP: #60429, #72058, #388715.
+
+ * Merge the various upstart packages into a single package, it makes
+   little sense to have it all spread out.
+
+ -- Scott James Remnant <scott@ubuntu.com> Wed, 08 Jul 2009 23:12:03 +0100
+
+upstart (0.3.10-2) karmic; urgency=low
+
+ * debian/upstart.postinst: Use telinit u to re-exec, rather than
+   kill just in case it's not Upstart that's running. LP: #92177.
+ * debian/event.d/system-services/tty*: Run getty in 8-bit clean
+   mode. LP: #273189.
+ * debian/event.d/upstart-compat-sysv/rc-default:
+   - Don't use grep -w, instead split on $IFS and iterate. LP: #385911.
+   - Check for any valid runlevel, not just S. LP: #85014.
+   - Make console owner, since it may spawn sulogin.
+ * debian/event.d/upstart-compat-sysv/rcS:
+   - Spawn sulogin if given -b or "emergency". LP: #193810.
+ * debian/event.d/upstart-compat-sysv/rcS:
+
    - Make console owner. LP: #211402.
+ * debian/event.d/upstart-compat-sysv/rcS-sulogin:
+   - Place the telinit code in post-stop, checking $UPSTART_EVENT first so
+   we don't change the runlevel if we were stopped due to a runlevel
+   change. LP: #66002.
+
+ -- Scott James Remnant <scott@ubuntu.com> Thu, 18 Jun 2009 16:19:34 +0100
+

+upstart (0.3.10-1) karmic; urgency=low
+
+ * Compilation fixes.
+ * Fixed assertion caused by the post-start or pre-stop scripts
+   exiting after the main process of a respawning job had exited.
+   LP: #381048.
+
+ -- Scott James Remnant <scott@ubuntu.com> Wed, 17 Jun 2009 13:33:40 +0100
+
+upstart (0.3.9-8) intrepid; urgency=low
+
+ * Do not attempt to continue communicating with the restarted upstart
+   (LP: #273761).
+
+ -- Kees Cook <kees@ubuntu.com> Mon, 29 Sep 2008 13:35:21 -0700
+
+upstart (0.3.9-7) intrepid; urgency=low
+
+ * Implement "telinit u" by just sending Upstart SIGTERM with a slightly
+   different
 patch than Fedora. LP: #188925.
+
+ -- Scott James Remnant <scott@ubuntu.com> Tue, 23 Sep 2008 09:01:09 -0700
+
+upstart (0.3.9-6) intrepid; urgency=low
+
+ * Really fix LP: #237276 properly this time, lost the change while mucking
+   around with bzr.
+
+ -- Scott James Remnant <scott@ubuntu.com> Wed, 04 Jun 2008 22:29:48 +0100
+
+upstart (0.3.9-5) intrepid; urgency=low
+
+ * Correct build problem on amd64 and ia64 by only building libnih and
+   libupstart statically. The shared objects were unwanted, and conflict
+   with -fPIE.
+
+ -- Scott James Remnant <scott@ubuntu.com> Wed, 04 Jun 2008 17:07:12 +0100
+
+upstart (0.3.9-4) intrepid; urgency=low
+
+ * Add missing limits.h, required to build with current libc.
+
+ -- Scott James Remnant <scott@ubuntu.com> Wed, 04 Jun 2008 13:09:32 +0100
+
+upstart (0.3.9-3) intrepid; urgency=low
+
+ * Change dependency from sysvutils to sysvinit-utils. LP: #237276.

+ * Compile with stack -fstack-protector, -fPIE, -z relro, -z
 now and -pie
+   (MMmm, pie)
+
+ -- Scott James Remnant <scott@ubuntu.com> Wed, 04 Jun 2008 12:59:11 +0100
+
+upstart (0.3.9-2) hardy; urgency=low
+
+ * Start the getty on tty1 after the rc script has stopped rather then
+   at the same time it starts to avoid overwriting by console messages.
+   tty2..6 will still be active if you want an early login. LP: #65230.
+ * If the recovery menu is available start that instead of sulogin when
+   entering single-user-mode.
+
+ -- Scott James Remnant <scott@ubuntu.com> Fri, 11 Apr 2008 13:38:50 +0100
+
+upstart (0.3.9-1) hardy; urgency=low
+
+ * New upstream release:
+   - many bug fixes.
+
+ * Update reference to "edgy" in README.Debian to "hardy". LP: #140037.
+
+ -- Scott James Remnant <scott@ubuntu.com> Sun, 28 Oct 2007 10:51:59 -0400
+
+upstart (0.3.8-2) gutsy; urgency=low
+
+ * Fix broken migration of old-style 'respawn process' stanzas which
+   produced corrupted 'exec' stanzas. Try to fix up files previously
+   corrupted
 by this. LP: #95210
+
+ -- Scott James Remnant <scott@ubuntu.com> Sun, 28 Oct 2007 10:50:36 -0400
+
+upstart (0.3.8-1) feisty; urgency=low
+
+ * New upstream release:
+   - much improved initctl tool.
+
+ * Update my standard prep_/undo_/rm_conffile functions to take into account
+   current dpkg behaviour wrt obsolete conffiles. The conffile is now moved
+   out of the way in preinst and the moved file deleted in postinst, or moved
+   back in postrm abort-upgrade. This means it's not there when dpkg
+   configures the new version, so the conffile is not left in the list.
+ * Purge backups of modified obsolete conffiles when the package is purged.
+
+ * Update runlevel and respawn rule generated in migrate-inittab.pl
+   LP: #89314

+
+ * Drop 00-libnih-update.patch and 01-libnih-sparc-ftbfs.patch; new upstream
+   release includes an up-to-date libnih which contains both patches.
+ * Drop 10-cant-stop-execless-job.patch; included upstream.
+ * Drop 20-complex-event-config.patch;
 this is going to be significantly
+   changed upstream, and we don't want to ship something strange.
+ * Drop 30-fix-warnings.patch; included upstream.
+
+ -- Scott James Remnant <scott@ubuntu.com> Sun, 11 Mar 2007 19:19:00 +0000
+
+upstart (0.3.5-2) feisty; urgency=low
+
+ * Changed "start script" to "pre-start script" in sulogin event, the former
+   is no longer recognised.
+
+ * Applied 01-libnih-sparc-ftbfs.patch; this updates the signal name list
+   to exclude signals not available on that architecture, and add one that's
+   unique to it.
+ * Applied 30-fix-warnings.patch; this corrects a few warnings that spoiled
+   an otherwise clean build log.
+
+ -- Scott James Remnant <scott@ubuntu.com> Tue, 13 Feb 2007 15:56:33 +0000
+
+upstart (0.3.5-1) feisty; urgency=low
+
+ * New upstream release:
+   - inotify file descriptor leak fixed. LP: #83099.
+   - inotify support is no longer required. LP: #68904.
+   - new job state machine
+   - new event
 structure, can now include arguments and environment
+
+ * Applied 00-libnih-update.patch; this updates the libnih library to the
+   latest bzr trunk version, required for the complex-event-config patch.
+ * Applied 10-cant-stop-execless-job.patch from upstream; this corrects a
+   bug where jobs without an "exec" or "script" stanza cannot be stopped.
+ * Applied 20-complex-event-config.patch from upstream; this is an
+   experimental implementation of the "on" keyword that allows definition
+   of complex system states.
+
+ * System V compatibility jobs updated to match new event names.
+ * rcS job now sets PREVLEVEL and RUNLEVEL. LP: #76304.
+
+ * NOTE: After this upgrade, init will appear to have "forgotten" the
+   process ids of your gettys, etc. This is not a critical problem and
+   will be fixed before release. Shutdown will still work as normal.
+

+ -- Scott James Remnant <scott@ubuntu.com> Mon, 12 Feb 2007 13:51:40 +0000
+
+upstart (0.3.2-1) experimental; urgency=low
+
+
  * New upstream release.
+ * debian/upstart.docs
+   - Install the NEWS, AUTHORS, TODO, HACKING and ChangeLog.nih file.
+
+ -- Michael Biebl <biebl@debian.org> Sat, 10 Feb 2007 18:25:10 +0100
+
+upstart (0.3.1-1) feisty; urgency=low
+
+ * New upstream release:
+   - start, stop and status are now symlinks to initctl, not to a
+   different, separate utility.
+   - initctl completely rewritten to behave properly.
+   - some upstart-specific options to shutdown and reboot dropped, as
+   these are considered SysV-compat tools.
+   - "console none" fixed. LP: #70782.
+   - improved documentation. LP: #68805.
+
+ * shutdown and reboot moved to upstart-compat-sysv.
+
+ * Replace the /usr/share/doc/* directory in upstart-logd,
+   upstart-compat-sysv, system-services and startup-tasks with a symlink to
+   /usr/share/doc/upstart. This was actually done in a previous package,
+   but the migration missed. LP: #70895.
+
+ -- Scott James Remnant <scott@ubuntu.com>
  Wed, 13 Dec 2006 17:27:37 +0000
+
+upstart (0.2.7-7) edgy; urgency=low
+
+ * Don't abort the postinst if we can't send init SIGTERM. Ubuntu: #64499.
+
+ -- Scott James Remnant <scott@ubuntu.com> Tue, 10 Oct 2006 10:13:05 +0100
+
+upstart (0.2.7-6) edgy; urgency=low
+
+ * Don't start gettys on tty2 thru tty6 in runlevels 4 and 5 (matches
+   our sysvinit configuration).
+ * Migrate common changes made to /etc/inittab to /etc/event.d by
+   adjusting the installed conffiles. Ubuntu: #61539.
+
+ * Include missing AUTHORS and NEWS file in the upstart package.
+ * Include README.Debian which answers common questions. Ubuntu: #60429.
+

+ -- Scott James Remnant <scott@ubuntu.com> Thu, 5 Oct 2006 16:08:34 +0100
+
+upstart (0.2.7-5) edgy; urgency=low
+
+ * Don't set the current runlevel in /var/run/utmp to 0 or 6 if it is
+   already either of those two values. That way we don't end up with
+   either 0 or 6 in the PREVLEVEL variable, which can cause
+   /etc/init.d/rc
 to be "efficient" and not bother doing
+   anything. Ubuntu: #63852.
+
+ -- Scott James Remnant <scott@ubuntu.com> Wed, 4 Oct 2006 14:06:18 +0100
+
+upstart (0.2.7-4) edgy; urgency=low
+
+ * Can't just start rc-default once in single-user mode, because if we
+   boot into that, that will just return us back to sulogin again. Copy
+   the script out of rc-default into rcS-sulogin to call telinit with the
+   right default runlevel. Ubuntu: #62189.
+
+ * Add Build-Depend on dpkg-dev (>= 1.13.19) due to our use of
+ ${binary:Version}. Ubuntu: #61693.
+
+ -- Scott James Remnant <scott@ubuntu.com> Tue, 26 Sep 2006 17:20:42 +0100
+
+upstart (0.2.7-3) edgy; urgency=low
+
+ * Set the runlevel to "S" when we enter sulogin so that it appears
+   in utmp.
+
+ -- Scott James Remnant <scott@ubuntu.com> Thu, 21 Sep 2006 05:37:25 +0100
+
+upstart (0.2.7-2) edgy; urgency=low
+
+ * Ensure that the same version of upstart is installed as the version of
+   upstart-compat-sysv and
 upstart-logd; as the IPC protocol may change
+   between releases.
+
+ * Adjust the rcS-sulogin job so that if sulogin exits the default runlevel
+   is entered; but if the job is stopped (e.g. by shutdown) it isn't. The
+   solves the regression introduced in the previous release.
+
+ * Revert upstream logd/"quiet" change in favour of doing it in our
+   lsb logging functions instead; seems to work better (fsvo better).
+
+ -- Scott James Remnant <scott@ubuntu.com> Thu, 21 Sep 2006 03:12:33 +0100
+

+upstart (0.2.7-1) edgy; urgency=low
+
+ * New upstream release:
+   - logd now writes to the console unless "quiet" is specified
+   - runaway jobs caught when they start rather than respawn. Ubuntu: #59807
+
+ * Fix failure to shutdown while in single-user mode, however this means
+   that for edgy you can't exit the sulogin shell to enter the default
+   runlevel; explicitly say what works. Ubuntu: #60626.
+ * Drop unnecessary dependency on util-linux.
+ * Drop sulogin
 hack, instead depend on the version of sysvutils that
+   includes the real one. Ubuntu: #60965.
+
+ -- Scott James Remnant <scott@ubuntu.com> Wed, 20 Sep 2006 05:39:16 +0100
+
+upstart (0.2.6-1) edgy; urgency=low
+
+ * New upstream release:
+   - fix infinite loop caused by bad waitid() call. Ubuntu: #59459.
+   - halt now behaves as "shutdown -h now". Ubuntu: #59720.
+
+ -- Scott James Remnant <scott@ubuntu.com> Wed, 13 Sep 2006 22:16:17 +0100
+
+upstart (0.2.5-1debian1) unstable; urgency=low
+
+ * upstart-compat-sysv: Depend on sysvinit-utils instead of sysvutils.
+ * Set myself as maintainer with approval from martin f. krafft.
+ * Changed section from base to admin.
+ * Added a patch to make it compile against glibc 2.3.
+
+ -- Michael Biebl <biebl@teco.edu> Tue, 12 Sep 2006 16:29:12 +0200
+
+upstart (0.2.5-1) edgy; urgency=low
+
+ * New upstream release:
+   - no longer spins when no stalled event handler. Ubuntu: #59170.
+   - shutdown works when under sysvinit.
  Ubuntu: #58523;
+   - shutdown -k implemented. Ubuntu: #58723.
+   - telinit sends shutdown event for 0, 1 and 6. Ubuntu: #58913.
+   - basic manual pages included. Ubuntu: #58724.
+
+ * upstart-compat-sysv Replaces: sysvinit. Ubuntu: #59427.
+ * upstart Recommends: upstart-compat-sysv, startup-tasks & system-services.
+
+ * New upstart-logd package includes the logd daemon that can will log
+   output of jobs with "console logged" (the default) in their description

+   to /var/log/boot.
+
+ * Add /etc/event.d/rc0 that is run on the "halt" event (neither -H or -P
+   given), and modify rc0-halt to run on "system-halt" (-H given) and
+   rc0-poweroff to run on "power-off" (-P given). Ubuntu: #59134.
+ * Fix the control-alt-delete job to run on the "ctrlaltdel" event so
+   that it's triggered properly. Ubuntu: #59398.
+ * Fix single-user mode.
+
+ -- Scott James Remnant <scott@ubuntu.com> Sat, 9 Sep 2006 05:10:12 +0100
+
+upstart (0.2.1-7) edgy; urgency=low
+
+
   * Remove the Essential tags again, they didn't solve the problem we
+   hoped they would (dpkg/apt still won't remove sysvinit without
+   serious persuasion) and I don't think these packages should be.
+
+ -- Scott James Remnant <scott@ubuntu.com> Thu, 7 Sep 2006 02:42:33 +0100
+
+upstart (0.2.1-6) edgy; urgency=low
+
+ * Make packages Essential, and change Depends to Pre-Depends so that the
+   packages work when unconfigured (nothing interesting is performed in
+   postinst). Ubuntu: #59005.
+ * Sync priority in debian/control with that in the archive (required)
+ * Drop warning of dire consequences if you install upstart, seeing as it's
+   installed by default.
+
+ * Add new startup-tasks and system-services packages which will contain
+   the /etc/event.d files themselves (other than the main ones).
+ * Move tty definitions into system-services.
+ * Modify tty definitions to start when the rcS task has finished. This
+   puts them in the "right" place when compared
  to gdm. Ubuntu: #58630.
+
+ * Correct rcS compatibility script to ignore any information in utmp so
+   that all scripts are always run. Ubuntu: #59203.
+ * Make rcS the console owner while it runs, temporary fix for
+   Ubuntu: #58609, #58794, #58796
+ * Include default control-alt-delete handler that reboots the machine.
+
+ -- Scott James Remnant <scott@ubuntu.com> Wed, 6 Sep 2006 21:52:48 +0100
+
+upstart (0.2.1-5) edgy; urgency=low
+
+ * upstart-compat-sysv Depends: initscripts (closes: Malone #58979).
+

+ -- Colin Watson <cjwatson@ubuntu.com> Tue, 5 Sep 2006 12:22:50 +0100
+
+upstart (0.2.1-4) edgy; urgency=low
+
+ * Add missing #! line to top of postrm
+
+ -- Scott James Remnant <scott@ubuntu.com> Mon, 4 Sep 2006 08:11:16 +0100
+
+upstart (0.2.1-3) edgy; urgency=low
+
+ * Remove the rc0 configuration file shipped in 0.1.0 that causes all
+   reboots to become shutdowns. Ubuntu: #58557.
+
+ -- Scott James Remnant <scott@ubuntu.com> Sun, 3 Sep 2006 23:24:41
 +0100
+
+upstart (0.2.1-2) edgy; urgency=low
+
+ * Don't send the SIGTERM signal unless we're upgrading from a version
+   of upstart that supports re-exec; older versions would cause a kernel
+   PANIC and change from sysvinit does nothing.
+
+ -- Scott James Remnant <scott@ubuntu.com> Sat, 2 Sep 2006 17:18:38 +0100
+
+upstart (0.2.1-1) edgy; urgency=low
+
+ * New upstream release:
+   - compilation fixes.
+
+ -- Scott James Remnant <scott@ubuntu.com> Fri, 1 Sep 2006 19:51:41 +0100
+
+upstart (0.2.0-1) edgy; urgency=low
+
+ * New upstream release:
+   - upstart includes shutdown, reboot, halt, poweroff, start, stop, status,
+   runlevel and telinit utilities.
+   - "initctl list" will list active jobs.
+   - Events vastly simplified to just simple strings.
+
+ * Compatibility tasks for old rc scripts, along with runlevel and telinit
+   utilities now shipped in upstart-compat-sysv package.
+
+ -- Scott James Remnant <scott@ubuntu.com> Fri, 1 Sep 2006 02:38:44 +0100
+
+upstart
 (0.1.1-1) edgy; urgency=low
+
+ * New upstream release:

```
+    - set PATH and TERM in processes
+
+ -- Scott James Remnant <scott@ubuntu.com>  Fri, 25 Aug 2006 16:17:52 +0200
+
+upstart (0.1.0-2) edgy; urgency=low
+
+  * Oops, rename /sbin/init to /sbin/upstart as documented.  Lost this
+    while battling bzr.
+
+ -- Scott James Remnant <scott@ubuntu.com>  Thu, 24 Aug 2006 16:30:54 +0200
+
+upstart (0.1.0-1) edgy; urgency=low
+
+  * Initial release.
+
+ -- Scott James Remnant <scott@ubuntu.com>  Thu, 24 Aug 2006 14:27:47 +0200
--- upstart-1.13.2.orig/debian/compat
+++ upstart-1.13.2/debian/compat
@@ -0,0 +1 @@
+9
--- upstart-1.13.2.orig/debian/conf/console.conf
+++ upstart-1.13.2/debian/conf/console.conf
@@ -0,0 +1,11 @@
+# console - getty
+#
+# This service maintains a getty on console from the point the system is
+# started until it is shut down again.
+
+start on stopped rc RUNLEVEL=[2345] and container CONTAINER=lxc
+
+stop on runlevel [!2345]
+
+respawn
+exec /sbin/getty
 -8 38400 console
--- upstart-1.13.2.orig/debian/conf/container-detect.conf
+++ upstart-1.13.2/debian/conf/container-detect.conf
@@ -0,0 +1,42 @@
+description "Track if upstart is running in a container"
+
+start on mounted MOUNTPOINT=/run
+
+env container
+env LIBVIRT_LXC_UUID
+
+emits container
+emits not-container
+
```

```
+pre-start script
+    # The "standard" way of telling if we are in a container
+    # is to check for "container" in init's environment.
+    # The code below is for cases where it's not set.
+
+    # Detect old-style libvirt
+    if [ -z "$container" ]; then
+        [ -n "$LIBVIRT_LXC_UUID" ] && container=lxc-libvirt
+    fi
+
+    # Detect OpenVZ containers
+    if [ -z "$container" ]; then
+        [ -d /proc/vz ] && [ ! -d /proc/bc ] && container=openvz
+    fi
+
+    # Detect Vserver containers
+    if [ -z "$container" ]; then
+        VXID="$(cat /proc/self/status | grep ^VxID | cut -f2)" || true
+        [ "${VXID:-0}" -gt 1 ] && container=vserver
+
  fi
+
+    if [ -n "$container" ]; then
+        echo "$container" > /run/container_type || true
+        initctl emit --no-wait container CONTAINER=$container
+        exit 0
+    fi
+
+    # If not a container, stop there
+    rm -f /run/container_type
+    initctl emit --no-wait not-container
+    stop
+end script
--- upstart-1.13.2.orig/debian/conf/failsafe.conf
+++ upstart-1.13.2/debian/conf/failsafe.conf
@@ -0,0 +1,44 @@
+# failsafe
+
+description "Failsafe Boot Delay"
+author "Clint Byrum <clint@ubuntu.com>"
+
+start on filesystem and net-device-up IFACE=lo
+stop on static-network-up or starting rc-sysinit
+
+emits failsafe-boot
+
+console output
+
```

```
+script
+ # Determine if plymouth is available
+ if [ -x /bin/plymouth ] && /bin/plymouth --ping ; then
+  PLYMOUTH=/bin/plymouth
+ else
+  PLYMOUTH=":"
+ fi
+
+    # The point here is to wait for 2 minutes before forcibly booting
+    # the system. Anything that is in an "or" condition with 'started
+    # failsafe' in rc-sysinit deserves
 consideration for mentioning in
+    # these messages. currently only static-network-up counts for that.
+
+ sleep 20
+
+    # Plymouth errors should not stop the script because we *must* reach
+    # the end of this script to avoid letting the system spin forever
+    # waiting on it to start.
+ $PLYMOUTH message --text="Waiting for network configuration..." || :
+ sleep 40
+
+ $PLYMOUTH message --text="Waiting up to 60 more seconds for network configuration..." || :
+ sleep 59
+ $PLYMOUTH message --text="Booting system without full network configuration..." || :
+
+    # give user 1 second to see this message since plymouth will go
+    # away as soon as failsafe starts.
+ sleep 1
+    exec initctl emit --no-wait failsafe-boot
+end script
+
+post-start exec logger -t 'failsafe' -p daemon.warning "Failsafe of 120 seconds reached."
--- upstart-1.13.2.orig/debian/conf/flush-early-job-log.conf
+++ upstart-1.13.2/debian/conf/flush-early-job-log.conf
@@ -0,0 +1,11 @@
+# flush-early-job-log
 - Ensure cached output from jobs that finish
+# before the disk is writeable are flushed to disk as soon as it does
+# becomes writeable.
+
+description "flush early job output to logs"
+
+task
+
+start on filesystem
+
+exec initctl notify-disk-writeable
```

```
--- upstart-1.13.2.orig/debian/conf/rcS.conf
+++ upstart-1.13.2/debian/conf/rcS.conf
@@ -0,0 +1,28 @@
+# rcS - System V single-user mode compatibility
+#
+# This task handles the old System V-style single-user mode, this is
+# distinct from the other runlevels since running the rc script would
+# be bad.
+
+description "System V single-user mode compatibility"
+author  "Scott James Remnant <scott@netsplit.com>"
+
+start on runlevel S
+stop on runlevel [!S]
+
+console owner
+script
+    exec /sbin/sulogin
+end script
+
+post-stop script
+    # Don't switch runlevels if we were stopped by an event, since that
+    # means we're already switching runlevels
+    if [ -n "${UPSTART_STOP_EVENTS}" ]
+    then
+ exit 0
+    fi
+
+
 # Switch, passing a magic flag
+    start --no-wait rc-sysinit FROM_SINGLE_USER_MODE=y
+end script
--- upstart-1.13.2.orig/debian/conf/shutdown.conf
+++ upstart-1.13.2/debian/conf/shutdown.conf
@@ -0,0 +1,9 @@
+# Trigger an immediate shutdown when upstart receives SIGPWR
+# this is useful for some UPS monitoring tools and for clean
+# shutdown of containers
+
+description "Trigger an immediate shutdown on SIGPWR"
+start on power-status-changed
+
+task
+exec shutdown -h now "SIGPWR received"
--- upstart-1.13.2.orig/debian/conf/tty1.conf
+++ upstart-1.13.2/debian/conf/tty1.conf
@@ -0,0 +1,14 @@
+# tty1 - getty
```

```
+#
+# This service maintains a getty on tty1 from the point the system is
+# started until it is shut down again.
+
+start on stopped rc RUNLEVEL=[2345] and (
+	not-container or
+	container CONTAINER=lxc or
+	container CONTAINER=lxc-libvirt)
+
+stop on runlevel [!2345]
+
+respawn
+exec /sbin/getty -8 38400 tty1
--- upstart-1.13.2.orig/debian/conf/tty2.conf
+++
 upstart-1.13.2/debian/conf/tty2.conf
@@ -0,0 +1,14 @@
+# tty2 - getty
+#
+# This service maintains a getty on tty2 from the point the system is
+# started until it is shut down again.
+
+start on runlevel [23] and (
+	not-container or
+	container CONTAINER=lxc or
+	container CONTAINER=lxc-libvirt)
+
+stop on runlevel [!23]
+
+respawn
+exec /sbin/getty -8 38400 tty2
--- upstart-1.13.2.orig/debian/conf/tty3.conf
+++ upstart-1.13.2/debian/conf/tty3.conf
@@ -0,0 +1,14 @@
+# tty3 - getty
+#
+# This service maintains a getty on tty3 from the point the system is
+# started until it is shut down again.
+
+start on runlevel [23] and (
+	not-container or
+	container CONTAINER=lxc or
+	container CONTAINER=lxc-libvirt)
+
+stop on runlevel [!23]
+
+respawn
+exec /sbin/getty -8 38400 tty3
```

```
--- upstart-1.13.2.orig/debian/conf/tty4.conf
+++ upstart-1.13.2/debian/conf/tty4.conf
@@ -0,0 +1,14 @@
+# tty4 - getty
+#
+# This service
 maintains a getty on tty4 from the point the system is
+# started until it is shut down again.
+
+start on runlevel [23] and (
+	not-container or
+	container CONTAINER=lxc or
+	container CONTAINER=lxc-libvirt)
+
+stop on runlevel [!23]
+
+respawn
+exec /sbin/getty -8 38400 tty4
--- upstart-1.13.2.orig/debian/conf/tty5.conf
+++ upstart-1.13.2/debian/conf/tty5.conf
@@ -0,0 +1,11 @@
+# tty5 - getty
+#
+# This service maintains a getty on tty5 from the point the system is
+# started until it is shut down again.
+
+start on runlevel [23] and not-container
+
+stop on runlevel [!23]
+
+respawn
+exec /sbin/getty -8 38400 tty5
--- upstart-1.13.2.orig/debian/conf/tty6.conf
+++ upstart-1.13.2/debian/conf/tty6.conf
@@ -0,0 +1,11 @@
+# tty6 - getty
+#
+# This service maintains a getty on tty6 from the point the system is
+# started until it is shut down again.
+
+start on runlevel [23] and not-container
+
+stop on runlevel [!23]
+
+respawn
+exec /sbin/getty -8 38400
 tty6
--- upstart-1.13.2.orig/debian/conf/wait-for-state.conf
```

```
+++ upstart-1.13.2/debian/conf/wait-for-state.conf
@@ -0,0 +1,60 @@
+author "Clint Byrum <clint.byrum@canonical.com>"
+description "Waiting for state"
+
+task
+normal exit 2
+
+stop on started $WAIT_FOR or stopped $WAIT_FOR
+
+# These are all arguments for use influencing how this job waits
+env TIMEOUT=30
+env MANUAL_OVERRIDE="N"
+env WAIT_FOREVER="N"
+env WAIT_STATE="started"
+env TARGET_GOAL="start"
+
+# Required args w/ no sensible default, the tests at the beginning of
+# the script are just to guard against WAITER="" or WAIT_FOR="", as the
+# instance line will fail if they are not set, since they have no env
+instance $WAITER$WAIT_FOR
+
+script
+    test -n "$WAIT_FOR" || exit 1
+    test -n "$WAITER" || exit 1
+
+    # We don't want to override the manual stanza
+    # XXX: initctl show-config should share manual w/ us too
+    case $MANUAL_OVERRIDE in
+    N|n|0)
+        if grep -q "^\s*manual\s*$" /etc/init/$WAIT_FOR.conf
 /etc/init/$WAIT_FOR.override 2>/dev/null; then
+            exit 0
+        fi
+        ;;
+    esac
+
+    if [ "$WAIT_STATE" = "stopped" ] ; then
+        TARGET_GOAL="stop"
+    fi
+
+    # Already running/stopped?
+    status $WAIT_FOR | grep -q "$TARGET_GOAL/$WAIT_STATE" && exit 0
+
+    # Give it a push
+    $TARGET_GOAL $WAIT_FOR || :
+
+    # upstart will kill this shell on started/stopped $WAIT_FOR
```

```
+    while sleep $TIMEOUT ; do
+        case $WAIT_FOREVER in
+        N|n|0)
+            exit 100
+            ;;
+        Y|y|1)
+            ;;
+        *)
+            exit 1
+            ;;
+        esac
+    done
+    # Very strange, sleep returned non-zero?
+    exit 1
+end script
--- upstart-1.13.2.orig/debian/control
+++ upstart-1.13.2/debian/control
@@ -0,0 +1,103 @@
+Source: upstart
+Section: admin
+Priority: required
+Maintainer: James Hunt <james.hunt@ubuntu.com>
+XSBC-Orig-Maintainer: Steve Langasek <vorlon@debian.org>
+Uploaders: Scott James Remnant <scott@netsplit.com>,
 James Hunt <james.hunt@ubuntu.com>
+Standards-Version: 3.9.6
+Build-Depends: debhelper (>= 9), pkg-config (>= 0.22), libnih-dev (>= 1.0.3), libnih-dbus-dev (>= 1.0.3), nih-dbus-tool (>= 1.0.3), libdbus-1-dev (>= 1.2.16), libexpat1-dev (>= 2.0.0), libudev-dev (>= 151-5), libjson0-dev (>= 0.10), dbus, bash-completion, dh-autoreconf, autopoint, python3:any, automake (>= 1.12), libdconf-dev, libselinux1-dev [linux-any], libcgmanager-dev [linux-any]
+X-Python3-Version: >= 3.2
+Vcs-Bzr: lp:ubuntu/upstart
+XS-Debian-Vcs-Bzr: nosmart+http://bzr.debian.org/bzr/collab-maint/upstart/trunk/
+XS-Debian-Vcs-Browser: http://anonscm.debian.org/loggerhead/collab-maint/upstart/trunk/
+Homepage: http://upstart.ubuntu.com/
+XS-Testsuite: autopkgtest
+
+Package: upstart
+Architecture: any
+Depends: ${shlibs:Depends}, ${misc:Depends}, sysvinit-utils, init-system-helpers (>= 1.22ubuntu6), initscripts, mountall, ifupdown (>= 0.6.10ubuntu5), libjson0 (>= 0.10-1.1ubuntu1), debianutils (>= 4)
+Suggests:
 python3, graphviz, bash-completion, upstart-monitor
+Replaces: upstart-job, sysvinit, startup-tasks, system-services, upstart-bin (<< 1.13.2-0ubuntu10~)
+Conflicts: upstart-job, sysvinit, startup-tasks, system-services, lxcguest
+Provides: upstart-job, upstart-compat-sysv, startup-tasks, system-services
+Breaks: libc6 (<< 2.12.1-0ubuntu12), friendly-recovery (<< 0.2.13), initramfs-tools (<< 0.103ubuntu8), upstart-bin (<< 1.13.2-0ubuntu10~)
```

+Multi-Arch: foreign
+Description: event-based init daemon - essential binaries
+ upstart is a replacement for the /sbin/init daemon which handles
+ starting of tasks and services during boot, stopping them during
+ shutdown and supervising them while the system is running.
+ .
+ This package provides all essential upstart components, sufficient
+ for running user sessions managed by upstart.
+
+Package: upstart-sysv
+Architecture: linux-any
+Multi-Arch: foreign
+Section: admin
+Priority: extra
+Conflicts: sysvinit-core, systemd-sysv
+Replaces:
 sysvinit (<< 2.88dsf-44~), sysvinit-core, upstart (<< 1.13.2-0ubuntu10~)
+Pre-Depends: upstart,
+Depends: ${shlibs:Depends}, ${misc:Depends}, upstart (= ${binary:Version})
+Description: event-based init daemon - SysV links
+ upstart is a replacement for the /sbin/init daemon which handles
+ starting of tasks and services during boot, stopping them during
+ shutdown and supervising them while the system is running.
+ .
+ This package provides the manual pages and links needed for upstart
+ to replace sysvinit. Installing systemd-sysv will overwrite /sbin/init with a
+ link to upstart.
+
+Package: upstart-bin
+Architecture: all
+Priority: extra
+Section: oldlibs
+Depends: ${shlibs:Depends}, ${misc:Depends}, upstart
+Description: event-based init daemon - transitional dummy package
+ This is a transitional dummy package. It can safely be removed.
+
+Package: upstart-monitor
+Architecture: all
+Section: utils
+Priority: optional
+Depends: ${shlibs:Depends}, ${misc:Depends}, ${python3:Depends},
 upstart (>= 1.7), python3-dbus
+Recommends: python3-gi
+Description: event monitor for upstart
+ This package contains a utility that may be run both as a
+ command-line tool or as a graphical one that displays upstart
+ events as they are emitted. It is useful for observing system
+ changes and for determining appropriate events for new jobs.

```
+
+Package: upstart-dconf-bridge
+Architecture: any
+Section: utils
+Priority: optional
+Depends: ${shlibs:Depends}, ${misc:Depends}, ${python3:Depends}, upstart (>= 1.10)
+Description: DConf bridge for upstart
+ This package contains a bridge that allows upstart jobs to react when
+ DConf/gsettings keys are changed.
+
+Package: libupstart1
+Priority: optional
+Architecture: any
+Pre-Depends: ${misc:Pre-Depends}
+Depends: ${misc:Depends}, ${shlibs:Depends}
+Multi-Arch: same
+Description: Upstart Client Library
+ The libupstart library allows access to services provided by the Upstart init
+ daemon without having to use low-level D-Bus calls.
+
 .
+ This package contains the shared library.
+
+Package: libupstart-dev
+Priority: optional
+Section: libdevel
+Architecture: any
+Multi-Arch: same
+Depends: libupstart1 (= ${binary:Version}), ${shlibs:Depends}, ${misc:Depends}
+Description: Upstart Client Library (development files)
+ The libupstart library allows access to services provided by the Upstart init
+ daemon without having to use low-level D-Bus calls.
+ .
+ This package contains the static library and C header files which are
+ needed for developing software using libupstart.
--- upstart-1.13.2.orig/debian/copyright
+++ upstart-1.13.2/debian/copyright
@@ -0,0 +1,19 @@
+Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
+Upstream-Name: upstart
+Upstream-Contact: upstart-devel@lists.ubuntu.com
+Source: http://http://launchpad.net/upstart
+
+Files: *
+Copyright: 2009-2013 Canonical Ltd.
+License: GPL-2
+ This program is free software; you can redistribute it and/or modify
+ it under the terms
```

```
 of the GNU General Public License version 2, as
+ published by the Free Software Foundation.
+ .
+ This program is distributed in the hope that it will be useful, but
+ WITHOUT ANY WARRANTY; without even the implied warranty of
+ MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
+ General Public License for more details.
+ .
+ On Debian and Ubuntu systems, the complete text of the GNU General Public
+ License can be found in `/usr/share/common-licenses/GPL-2'.
--- upstart-1.13.2.orig/debian/libupstart-dev.install
+++ upstart-1.13.2/debian/libupstart-dev.install
@@ -0,0 +1,5 @@
+usr/lib/*/libupstart.a
+usr/lib/*/libupstart.so
+usr/include/upstart.h
+usr/include/upstart
+usr/lib/*/pkgconfig/libupstart.pc
--- upstart-1.13.2.orig/debian/libupstart1.install
+++ upstart-1.13.2/debian/libupstart1.install
@@ -0,0 +1 @@
+usr/lib/*/libupstart.so.*
--- upstart-1.13.2.orig/debian/libupstart1.symbols
+++ upstart-1.13.2/debian/libupstart1.symbols
@@ -0,0 +1,2 @@
+libupstart.so.1 libupstart1
 #MINVER#
+ *@LIBUPSTART_1.0.0 1.9.1
--- upstart-1.13.2.orig/debian/manpages/upstart-events.7
+++ upstart-1.13.2/debian/manpages/upstart-events.7
@@ -0,0 +1,356 @@
+'\" t
+.TH upstart-events 7 2013-12-20 upstart
+.\"
+.SH NAME
+upstart-events \- Well-known Upstart events summary
+.\"
+.SH Event Summary
+
+This manual page summarises well-known events generated by Upstart
+running both as the
+.BR init (8)
+daemon (process ID 1) and a Session Init (process that supervises a user
+session).
+
+It is not an exhaustive list of all possible events, but rather details
+a standard set of events expected to be generated on any Ubuntu system
+running Upstart.
```

+
+The primary tables, \fBTable 1\fP and \fBTable 2\fP, encode the
+well-known system and session events respectively, along with the type
+of each event (listed in \fBTable 3\fP), the emitter of the event (see
+\fBTable 4\fP) and the approximate time at which the event could be
+generated. Additionally, the \fINote\fP column indexes
 into \fBTable
+5\fP for further details on a particular event.
+
+See
+.BR init (8)
+for a table summarising job goals and possible state transitions.
+
+Note that some events listed in
+.B Table 1
+.I may
+be available to session jobs (depending on when the Session Init
+starts). Those events that are available will be prefixed with
+\fI:sys:\fR. See
+.BR upstart\-event\-bridge (8)
+for further details.
+
+The \fIRef\fP (Reference) column is used to refer to individual
+events succinctly in the \fITime\fP column.
+
+Note that the \(aq<\(aq and \(aq>\(aq characters in the \fITime\fP column denote
+that the event in the \fIEvent\fP column occurs respectively before or
+after the event specified in the \fITime\fP column (for example, the
+\fBmounting\fP(7) event occurs "at some time" after the \fBstartup\fP(7)
+event, and the \fBvirtual\-filesystems\fP(7) event occurs after the last
+\fBmounted\fP(7) event relating to a virtual filesystem has been emitted).
+
+For further details on events,
 consult the manual pages and the system
+job configuration files, usually located in \fI/etc/init\fP.
+.\"
+
+.\" Flush-left to allow table to be viewed on 80-col display without
+.\" wrapping.
+.nr old_po .po
+.nr old_in .in
+.po 0
+.in 0
+.sp 1
+\fBTable 1: Well-Known System Events Summary.\fP
+.TS
+box, tab (@);
+c | c | c | c | c | c

```
+c | l | c | c | l | c.
+Ref@Event@Type@Emit@Time@Note
+=
+  @\fBall\-swaps\fP@S@M@> (5)@
+  @\fBcontrol\-alt\-delete\fP(7)@S@A@> (5)@A
+  @container@S@C@> \fI/run\fP mounted@Q
+  @dbus\-activation@S@B@> D\-Bus client request@
+  @deconfiguring\-networking@H@V@< non-local IFs down@P
+  @desktop\-session\-start@H@D@> \fBX\fP(7) session created@B
+  @desktop\-shutdown@H@D@> \fBX\fP(7) session ended@O
+  @device\-not\-ready@H@M@> (2)@N
+  @drm\-device\-added@S@U@> (5)@C
+  @failsafe\-boot@S@X@> (7) and local IF@S
+  @file@S@K@> (1)@U
+7@\fBfilesystem\fP@S@M@After last (1)@D
+  @graphics\-device\-added@S@U@> (5)@C
+  @\fBkeyboard\-request\fP(7)@S@A@>
 (5)@E
+  @\fBlocal\-filesystems\fP(7)@S@M@> (6)@
+  @login\-session\-start@H@D@< DM running@F
+1@\fBmounted\fP(7)@H@M@> associated (2)@G
+2@\fBmounting\fP(7)@H@M@> (5)@H
+3@net\-device\-added@S@U@> (5)@C
+  @net\-device\-changed@S@U@> (5)@C
+  @net\-device\-down@S@F@< (4)@C
+4@net\-device\-removed@S@U@> (5)@C
+  @net\-device\-up@S@F,N@> (3)@C
+  @not\-container@S@C@> \fI/run\fP mounted@Q
+  @\fBpower\-\%status\-\%changed\fP(7)@S@I@> (5)@I
+  @recovery@S@G@Boot (<5)@R
+  @\fBremote\-\%filesystems\fP(7)@S@M@> (6)@
+  @rotate\-logs@H@R@daily@Y
+  @\fBrunlevel\fP(7)@M@T@> (7) + (8)@
+  @\fBsocket\fP(7)@S@S@> socket connection@X
+5@\fBstartup\fP(7)@S@I@Boot@J
+  @\fBstarted\fP(7)@S@I@> job started@K
+  @\fBstarting\fP(7)@H@I@< job starts@K
+ 8@static\-network\-up@S@N@> last static IF up@
+  @\fBstopped\fP(7)@S@I@> job stopped@K
+  @\fBstopping\fP(7)@H@I@< job stops@K
+  @T{
+unmounted\-\:remote\-\:filesystems
+T}@H@V@T{
+> last remote FS unmounted
+T}@L
+6@\fBvirtual\-\:filesystems\fP(7)@S@M@>
 last virtual FS (1)@M
+.TE
```

```
+.po \n[old_po]
+.in \n[old_in]
+.P
+Key:
+  \(aqDM\(aq is an abbreviation for Display Manager.
+  \(aqFS\(aq is an abbreviation for filesystem.
+  \(aqIF\(aq is an abbreviation for Network Interface.
+
+.\" Flush-left to allow table to be viewed on 80-col display without
+.\" wrapping.
+.nr old_po .po
+.nr old_in .in
+.po 0
+.in 0
+.sp 1
+\fBTable 2: Well-Known User Events Summary.\fP
+.TS
+box, tab (@);
+c | c | c | c | c | c
+c | l | c | c | l | c.
+Ref@Event@Type@Emit@Time@Note
+=
+ @dbus@S@L@> (1) @W
+ @dconf@S@O@> (1) @
+ @\fBdesktop\-end\fP(7)@S@J@< (2)@
+ @\fBdesktop\-start\fP(7)@H@J@> (3)@
+ @file@S@K@> (1)@U
+2@\fBsession\-end\fP(7)@M@I@< Session Init end@
+1@\fBstartup\fP(7)@S@I@> Session Init start@J
+ @:sys:*@S@E@> \fBupstart\-event\-bridge\fP(8) start@
+ @:sys:restarted@S@E@> \fBupstart\-event\-bridge\fP(8) start@V
+3@xsession@M@H@> (1)@T
+.TE
+.po \n[old_po]
+.in \n[old_in]
+
+.\"
+.P
+.sp 1
+.nr old_po .po
+.nr old_in .in
+.po 0
+.in 0
+\fBTable
 3: Event Types.\fP
+.TS
+box, tab (@);
+c | l |l
```

```
+c | l |l.
+Ref@Event Type@Notes
+=
+H@Hook@T{
+Blocking. Waits for events that \fBstart on\fP or \fBstop on\fP this
+event.
+T}
+M@Method@Blocking task.
+S@Signal@Non-blocking.
+.TE
+.po \n[old_po]
+.in \n[old_in]
+
+.\"
+.P
+.nr old_po .po
+.nr old_in .in
+.po 0
+.in 0
+.sp 1
+\fBTable 4: Event Emitters.\fP
+.TS
+box, tab (@);
+c | l |l
+c | l |l.
+Ref@Emitter@Notes
+=
+A@System Administrator (initiator)@Technically emitted by init(8).
+B@\fBdbus\-daemon\fP(1)@Run with "\fI\-\-activation=upstart"\fP
+C@container\-detect job@
+D@Display Manager@e.g. lightdm/gdm/kdm/xdm.
+E@\fBupstart\-event\-bridge\fP(8)@
+F@\fBifup\fP(8) or \fBifdown\fP(8)@See \fI/etc/network/\fP.
+G@bootloader or initramfs@
+H@xsession\-init session job@
+I@\fBinit\fP(8)@Either PID 1 or a Session Init.
+J@job that starts desktop@gnome\-session job for Ubuntu.
+K@\fBupstart\-file\-bridge\fP(8)@See \fBfile\-event\fP(7).
+L@\fBupstart\-dbus\-bridge\fP(8)@See \fBdbus\-event\fP(7).
+M@\fBmountall\fP(8)@
+N@network\-interface
 job@
+O@\fBupstart\-dconf\-bridge\fP(8)@See \fBdconf\-event\fP(7).
+R@\fI/etc/cron.daily/upstart\fP@See \fBcron\fP(8).
+S@\fBupstart\-socket\-bridge\fP(8)@See \fBsocket\-event\fP(7).
+T@\fBtelinit\fP(8), \fBshutdown\fP(8)@
+U@\fBupstart\-udev\-bridge\fP(8)@
+V@System V init system@
```

+X@failsafe job@
+.TE
+.po \n[old_po]
+.in \n[old_in]
+
+.\"
+.P
+.nr old_po .po
+.nr old_in .in
+.po 0
+.in 0
+\fBTable 5: Event Summary Notes.\fP
+.TS
+box, tab (@);
+c | l
+c | l.
+Note@Detail
+=
+A@T{
+Requires administrator to press Control-Alt-Delete key
+combination on the console.
+T}
+B@Event generated when user performs graphical login.
+C@T{
+These are specific examples. \fBupstart\-udev\-bridge\fP(8) will emit
+events which match the pattern, "\fIS\fP\-device\-\fIA\fP" where
+\(aqS\(aq is the udev \fIsubsystem\fP and \(aqA\(aq is the udev \fIaction\fP. See
+\fBudev\fP(7) and for further details. If you have sysfs
+mounted, you can look
 in \fI/sys/class/\fP for possible values for subsystem.
+T}
+D@Note this is in the singular - there is no \(aqfilesystems\(aq event.
+E@T{
+Emitted when administrator presses Alt-UpArrow key combination on
+the console.
+T}
+F@T{
+Denotes Display Manager running (about to be displayed), but no users
+logged in yet.
+T}
+G@Generated for each mount that completes successfully.
+H@T{
+Emitted when mount attempt for single entry from \fBfstab\fP(5)
+for any filesystem type is about to begin.
+T}
+I@Emitted when Upstart receives the SIGPWR signal.
+J@Initial event (system or Session Init).
+K@T{

+Although the events are emitted by \fBinit\fP(8), the instigator may be
+\fBinitctl\fP(8) if a System Administrator has manually started or
+stopped a job.
+T}
+L@\fI/etc/init/umountnfs.sh\fP.
+M@Emitted when all virtual filesystems (such as \fI/proc\fR) mounted.
+N@T{
+Emitted when the \fI\-\-dev\-wait\-time\fP timeout is exceeded for
+\fBmountall\fP(8). This defaults to 30 seconds.
+T}
+O@T{
+Emitted
 when the \fIX\fP(7) display manager exits at shutdown or reboot, to
+hand off to the shutdown splash manager.
+T}
+P@T{
+Emitted by /etc/init.d/networking just prior to stopping all non-local
+network interfaces.
+T}
+Q@T{
+Either \(aqcontainer\(aq or \(aqnot-container\(aq is emitted (depending
+on the environment), but not both.
+T}
+R@T{
+Emitted by either the initramfs or bootloader (for example grub) as the \fIinitial\fP
+event (rather than \fBstartup\fP(7)) to denote the system has booted into
+recovery mode. If recovery was successful, the standard \fBstartup\fP(7)
+event is \fIthen\fP emitted, allowing the system to boot as normal.
+T}
+S@T{
+Emitted to indicate the system has failed to boot within the expected
+time. This event will trigger other jobs to forcibly attempt to bring
+the system into a usable state.
+T}
+T@Only emitted for a graphical session.
+U@See \fBfile\-event\fP(7).
+V@T{
+This is a pseudo-system event emitted directly by the
+.BR upstart\-event\-bridge
 (8) "" .
+T}
+W@T{
+Emitted by Session Init only since bridge not run as system job by
+default.
+T}
+X@See \fBsocket\-event\fP(7).
+Y@T{
+Used primary by Session Job

```
+\fI/usr/share/upstart/sessions/logrotate.conf\fP.
+T}
+.TE
+.po \n[old_po]
+.in \n[old_in]
+
+.\"
+.SH AUTHOR
+Manual page written by James Hunt
+.RB < james.hunt@ubuntu.com >
+.\"
+.SH REPORTING BUGS
+Report bugs at
+.RB < https://launchpad.net/ubuntu/+source/upstart/+bugs >
+.\"
+.SH COPYRIGHT
+Copyright \(co 2011-2013 Canonical Ltd.
+.br
+This is free software; see the source for copying conditions.  There is NO
+warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
+.\"
+.SH SEE ALSO
+
+.BR all\-swaps (7),
+.BR control\-alt\-delete (7),
+.BR dbus\-daemon (1),
+.BR dbus\-event (7),
+.BR dconf\-event (7),
+.BR file\-event (7),
+.BR filesystem (7),
+.BR ifdown(8)
+.BR ifup (8)
+.BR init (5),
+.BR init (8),
+.BR initctl (8),
+.BR keyboard\-request (7),
+.BR local\-filesystems (7),
+.BR mountall (8),
+.BR
 mounted (7),
+.BR mounting (7),
+.BR power\-status\-changed (7),
+.BR remote\-filesystems (7),
+.BR runlevel (7),
+.BR shutdown (8),
+.BR socket\-event (7),
+.BR started (7),
+.BR starting (7),
```

```
+.BR startup (7),
+.BR stopped (7),
+.BR stopping (7),
+.BR telinit (8),
+.BR upstart\-dbus\-bridge (8),
+.BR upstart\-dconf\-bridge (8),
+.BR upstart\-event\-bridge (8),
+.BR upstart\-file\-bridge (8),
+.BR upstart\-local\-bridge (8),
+.BR upstart\-socket\-bridge (8),
+.BR upstart\-udev\-bridge (8),
+.BR virtual\-filesystems (7).
+
--- upstart-1.13.2.orig/debian/migrate-inittab.pl
+++ upstart-1.13.2/debian/migrate-inittab.pl
@@ -0,0 +1,143 @@
+#!/usr/bin/perl
+
+use strict;
+use warnings;
+
+my %gettys;
+my $have_cad = 0;
+
+
+#------------------------------------------------------------------------------#
+# Parse /etc/inittab
+#------------------------------------------------------------------------------#
+
+open INITTAB, "/etc/inittab"
+    or die "Unable to open /etc/inittab: $!";
+
+while
+ (<INITTAB>) {
+    chomp;
+    s/^\s*//;
+
+    next if /^\#/;
+    next unless length;
+
+    my ($id, $rlevel, $action, $process) = split /:/, $_, 4;
+
+    warn "missing id field" and next
+ unless defined $id and length $id;
+    warn "missing runlevel field" and next
+ unless defined $rlevel;
+    warn "missing action field" and next
+ unless defined $action and length $action;
```

```
+    warn "missing process field" and next
+ unless defined $process;
+
+
+    $have_cad = 1 if $action eq "ctrlaltdel";
+    $gettys{$1} = [ $rlevel, $process ] if $process =~ /getty.*\b(tty\w+)/;
+}
+
+close INITTAB
+    or warn "Error while closing /etc/inittab: $!";
+
+
+#---------------------------------------------------------------------------#
+# Alter /etc/event.d
+#---------------------------------------------------------------------------#
+
+unlink "/etc/init/control-alt-delete.conf"
+    unless $have_cad;
+
+foreach (qw/tty1 tty2 tty3 tty4 tty5 tty6/) {
+    unlink "/etc/init/$_.conf"
+ unless
 exists $gettys{$_};
+}
+
+foreach (sort keys %gettys) {
+    my ($rlevel, $process) = @{$gettys{$_}};
+
+    my @job;
+    if (-f "/etc/event.d/$_") {
+ open JOB, "/etc/event.d/$_"
+     or warn "Unable to open /etc/event.d/$_: $!" and next;
+ @job = <JOB>;
+ chomp @job;
+ close JOB
+     or warn "Error while closing /etc/event,d/$_: $!" and next;
+
+ foreach my $rl (qw/2 3 4 5/) {
+     my $idx;
+     for ($idx = 0; $idx < @job; $idx++) {
+  last if $job[$idx] =~ /^\s*(start|stop)\s+on\s+runlevel\s+$rl\b/;
+     }
+
+     if ($idx < @job) {
+  if ($rlevel =~ /$rl/) {
+      $job[$idx] =~ s/^(\s*)stop(\s+)/$1start$2/;
+  } else {
+      $job[$idx] =~ s/^(\s*)start(\s+)/$1stop$2/;
```

```
+  }
+     } else {
+  if ($rlevel =~ /$rl/) {
+      push @job, "start on runlevel $rl";
+  } else {
+      push @job, "stop on runlevel $rl";
+  }
+     }
+ }
+
+ my $idx;
+ for ($idx = 0; $idx < @job; $idx++) {
+     last if $job[$idx] =~ /^\s*respawn\s*/; # match bare 'respawn' too
+ }
+
+ if ($idx
 < @job) {
+     # only match old-style 'respawn process', not bare 'respawn'
+     $job[$idx] =~ s/^(\s*respawn\s+).*/$1$process/;
+ } else {
+     push @job, "respawn";
+     push @job, "exec $process";
+ }
+
+ # Try to fix up effects of previous broken migrations
+ if (@job and $job[$#job] =~ /.*(.+?)exec (\1)$/) {
+     $job[$#job] = "exec $1";
+ }
+
+    } else {
+ push @job, "# $_ - getty";
+ push @job, "#";
+ push @job, "# Converted from /etc/inittab entry";
+ push @job, "";
+
+ foreach my $rl (qw/2 3 4 5/) {
+     if ($rlevel =~ /$rl/) {
+  push @job, "start on runlevel $rl";
+     } else {
+  push @job, "stop on runlevel $rl";
+     }
+ }
+ push @job, "";
+
+ push @job, "stop on shutdown";
+ push @job, "";
+
+ push @job, "respawn";
```

```
+ push @job, "exec $process";
+    }
+
+    open JOB, ">/etc/event.d/.$_"
+ or warn "Unable to write to /etc/event.d/.$_: $!" and next;
+    print JOB map { "$_\n" } @job;
+    unless (close JOB) {
+ warn "Error while closing /etc/event.d/.$_: $!";
+ unlink
 "/etc/event.d/.$_";
+ next;
+    }
+
+    unless (rename "/etc/event.d/.$_", "/etc/event.d/$_") {
+ warn "Unable to replace /etc/event.d/$_: $!";
+ unlink "/etc/event.d/.$_";
+ next;
+    }
+}
--- upstart-1.13.2.orig/debian/rules
+++ upstart-1.13.2/debian/rules
@@ -0,0 +1,57 @@
+#!/usr/bin/make -f
+
+DEB_BUILD_MAINT_OPTIONS  := hardening=+pie,+bindnow
+DEB_LDFLAGS_MAINT_APPEND := -Wl,--as-needed
+DEB_CFLAGS_MAINT_APPEND  := -Wall
+
+# Disable optimisations if noopt found in $DEB_BUILD_OPTIONS
+ifneq (,$(findstring noopt,$(DEB_BUILD_OPTIONS)))
+ DEB_LDFLAGS_MAINT_APPEND += -Wl,-O0
+else
+ DEB_CFLAGS_MAINT_APPEND += -Os
+ DEB_LDFLAGS_MAINT_APPEND += -Wl,-O1
+endif
+
+export DEB_BUILD_MAINT_OPTIONS DEB_LDFLAGS_MAINT_APPEND
DEB_CFLAGS_MAINT_APPEND
+
+%:
+ dh $@ --with bash-completion,autoreconf,python3 --parallel
+
+override_dh_auto_configure:
+ dh_auto_configure -- --exec-prefix= --enable-selinux \
+  --disable-silent-rules --disable-abi-check \
+  --program-transform-name="s/^init$$/upstart/"
+
+override_dh_auto_build:
```

```
+ dh_auto_build
 --parallel
+
+override_dh_auto_test:
+ifeq (,$(filter nocheck,$(DEB_BUILD_OPTIONS)))
+ifeq (0,$(shell id -u))
+ # WARNING: RUNNING TESTS AS ROOT IS KNOWN TO FAIL
+ # WARNING: WILL RUN TESTS, BUT WILL IGNORE FAILURE
+ -dh_auto_build -- -k check || { RET=$$?; find . -name "test-suite.log" -exec cat {} + ; exit $$RET;}
+else
+ dh_auto_build -- -k check || { RET=$$?; find . -name "test-suite.log" -exec cat {} + ; exit $$RET;}
+endif
+endif
+
+override_dh_fixperms:
+ dh_fixperms
+ chmod 755 debian/upstart/lib/init/upstart-job
+ chmod 755 debian/upstart/usr/lib/upstart/migrate-inittab.pl
+
+override_dh_auto_install:
+ dh_auto_install -- pkgconfigdir=\$${libdir}/pkgconfig
+
+# Remove the appropriate dconf files from the upstart package - they
+# will be added used by the upstart-dconf-bridge.install file.
+override_dh_install:
+ dh_install --list-missing
+ install -m 644 debian/upstart.apport \
+  debian/upstart/usr/share/apport/package-hooks/source_upstart.py
+ rm
 debian/upstart/usr/share/upstart/sessions/upstart-dconf-bridge.conf
+ rm debian/upstart/etc/init/upstart-dbus-bridge.conf
+
+override_dh_installcron:
+ dh_installcron -p upstart --name upstart
--- upstart-1.13.2.orig/debian/source/format
+++ upstart-1.13.2/debian/source/format
@@ -0,0 +1 @@
+1.0
--- upstart-1.13.2.orig/debian/source/options
+++ upstart-1.13.2/debian/source/options
@@ -0,0 +1 @@
+--extend-diff-ignore=.*.gmo
--- upstart-1.13.2.orig/debian/tests/control
+++ upstart-1.13.2/debian/tests/control
@@ -0,0 +1,3 @@
+Tests: force
+Depends: @, dbus
+Restrictions: needs-root build-needed
```

```
--- upstart-1.13.2.orig/debian/tests/force
+++ upstart-1.13.2/debian/tests/force
@@ -0,0 +1,13 @@
+#!/bin/sh -e
+#----------------------------------------------------------------------
+# Dummy DEP-8 test that does nothing. The reason for having it though
+# is to force auto-package-test to build Upstart and thus run its test
+# suite. This is not strictly necessary
 (as we already run it on all
+# architectures as part of the package build), running the tests in
+# the the virtualised auto-package-test environment (different to the
+# buildd environment) has shaken out a few bugs in the past.
+#----------------------------------------------------------------------
+
+. $(dirname $0)/test_setup
+
+exit 0
--- upstart-1.13.2.orig/debian/tests/test_setup
+++ upstart-1.13.2/debian/tests/test_setup
@@ -0,0 +1,25 @@
+#----------------------------------------------------------------------
+# Source this file in all tests
+#----------------------------------------------------------------------
+
+# user provided by auto-package-testing environment
+user=ubuntu
+
+#------------------------------
+# Assertions
+
+# We must be running as root initially to perform setup
+test $(id -u) -eq 0 || { echo "ERROR: not root"; exit 1; }
+
+# User must exist
+getent passwd $user >/dev/null 2>&1 || \
+ { echo "ERROR: no user '$user'"; exit 1; }
+
+#------------------------------
+#
 Init
+
+# we need to run as root, but that means all unpacked files are owned by
+# root too.
+chown -R ${user}: . ..
+
+#----------------------------------------------------------------------
--- upstart-1.13.2.orig/debian/upstart-dconf-bridge.install
+++ upstart-1.13.2/debian/upstart-dconf-bridge.install
```

```
@@ -0,0 +1,4 @@
+sbin/upstart-dconf-bridge
+usr/share/upstart/sessions/upstart-dconf-bridge.conf
+usr/share/man/man8/upstart-dconf-bridge.8
+usr/share/man/man7/dconf-event.7
--- upstart-1.13.2.orig/debian/upstart-job
+++ upstart-1.13.2/debian/upstart-job
@@ -0,0 +1,119 @@
+#!/bin/sh -e
+# upstart-job
+#
+# Symlink target for initscripts that have been converted to Upstart.
+
+set -e
+
+UPSTART_JOB_CONF="/etc/default/upstart-job"
+INITSCRIPT="$(basename "$0")"
+JOB="${INITSCRIPT%.sh}"
+
+if [ "$JOB" = "upstart-job" ]; then
+    if [ -z "$1" ]; then
+        echo "Usage: upstart-job JOB COMMAND" 1>&2
+ exit 1
+    fi
+
+    JOB="$1"
+    INITSCRIPT="$1"
+    shift
+else
+
 if [ -z "$1" ]; then
+        echo "Usage: $0 COMMAND" 1>&2
+ exit 1
+    fi
+fi
+
+COMMAND="$1"
+shift
+
+ECHO=echo
+ECHO_ERROR=echo
+if [ -e "$UPSTART_JOB_CONF" ]; then
+ . "$UPSTART_JOB_CONF"
+fi
+if [ -n "$DPKG_MAINTSCRIPT_PACKAGE" ]; then
+ ECHO=:
+ ECHO_ERROR=:
+fi
```

```
+
+$ECHO "Rather than invoking init scripts through /etc/init.d, use the service(8)"
+$ECHO "utility, e.g. service $INITSCRIPT $COMMAND"
+
+# Only check if jobs are disabled if the currently _running_ version of
+# Upstart (which may be older than the latest _installed_ version)
+# supports such a query.
+#
+# This check is necessary to handle the scenario when upgrading from a
+# release without the 'show-config' command (introduced in
+# Upstart for Ubuntu version 0.9.7) since without this check, all
+# installed packages with associated Upstart jobs would be considered
+# disabled.
+#
+# Once Upstart can maintain state on re-exec, this change can be
+# dropped (since the currently running version of Upstart will always
+#
 match the latest installed version).
+
+UPSTART_VERSION_RUNNING=$(initctl version|awk '{print $3}'|tr -d ')')
+
+if dpkg --compare-versions "$UPSTART_VERSION_RUNNING" ge 0.9.7
+then
+    initctl show-config -e "$JOB"|grep -q '^  start on' || DISABLED=1
+fi
+
+case $COMMAND in
+status)
+    $ECHO
+    $ECHO "Since the script you are attempting to invoke has been converted to an"
+    $ECHO "Upstart job, you may also use the $COMMAND(8) utility, e.g. $COMMAND $JOB"
+    $COMMAND "$JOB"
+    ;;
+start|stop)
+    $ECHO
+    $ECHO "Since the script you are attempting to invoke has been converted to an"
+    $ECHO "Upstart job, you may also use the $COMMAND(8) utility, e.g. $COMMAND $JOB"
+    if status "$JOB" 2>/dev/null | grep -q ' start/'; then
+        RUNNING=1
+    fi
+    if [ -z "$RUNNING" ] && [ "$COMMAND" = "stop" ]; then
+        exit 0
+    elif [ -n "$RUNNING" ] && [ "$COMMAND" = "start" ]; then
+        exit 0
+    elif [ -n "$DISABLED" ] && [ "$COMMAND" = "start" ]; then
+
       exit 0
+    fi
```

```
+    $COMMAND "$JOB"
+    ;;
+restart)
+    $ECHO
+    $ECHO "Since the script you are attempting to invoke has been converted to an"
+    $ECHO "Upstart job, you may also use the stop(8) and then start(8) utilities,"
+    $ECHO "e.g. stop $JOB ; start $JOB. The restart(8) utility is also available."
+    if status "$JOB" 2>/dev/null | grep -q ' start/'; then
+        RUNNING=1
+    fi
+    if [ -n "$RUNNING" ] ; then
+        stop "$JOB"
+    fi
+    # If the job is disabled and is not currently running, the job is
+    # not restarted. However, if the job is disabled but has been forced into the
+    # running state, we *do* stop and restart it since this is expected behaviour
+    # for the admin who forced the start.
+    if [ -n "$DISABLED" ] && [ -z "$RUNNING" ]; then
+        exit 0
+    fi
+    start "$JOB"
+    ;;
+reload|force-reload)
+    $ECHO
+    $ECHO "Since the script you are attempting to invoke has been converted to an"
+    $ECHO "Upstart job,
 you may also use the reload(8) utility, e.g. reload $JOB"
+    reload "$JOB"
+    ;;
+*)
+    $ECHO_ERROR
+    $ECHO_ERROR "The script you are attempting to invoke has been converted to an Upstart" 1>&2
+    $ECHO_ERROR "job, but $COMMAND is not supported for Upstart jobs." 1>&2
+    exit 1
+esac
--- upstart-1.13.2.orig/debian/upstart-monitor.install
+++ upstart-1.13.2/debian/upstart-monitor.install
@@ -0,0 +1,5 @@
+bin/upstart-monitor usr/bin/
+usr/share/icons/hicolor/scalable/apps/upstart-monitor.svg
+usr/share/applications/upstart-monitor.desktop
+usr/share/man/man8/upstart-monitor.8
+usr/share/upstart/icons/upstart-monitor.svg
--- upstart-1.13.2.orig/debian/upstart-sysv.install
+++ upstart-1.13.2/debian/upstart-sysv.install
@@ -0,0 +1,13 @@
+sbin/halt
+sbin/poweroff
```

```
+sbin/reboot
+sbin/runlevel
+sbin/shutdown
+usr/share/man/man5/inittab.5
+usr/share/man/man7/runlevel.7
+usr/share/man/man8/shutdown.8
+usr/share/man/man8/runlevel.8
+usr/share/man/man8/reboot.8
+usr/share/man/man8/telinit.8
+usr/share/man/man8/poweroff.8
+usr/share/man/man8/halt.8
---
 upstart-1.13.2.orig/debian/upstart-sysv.links
+++ upstart-1.13.2/debian/upstart-sysv.links
@@ -0,0 +1,3 @@
+sbin/upstart sbin/init
+lib/sysvinit/telinit sbin/telinit
+usr/share/man/man5/upstart.5.gz usr/share/man/man5/init.5.gz
--- upstart-1.13.2.orig/debian/upstart-sysv.postinst
+++ upstart-1.13.2/debian/upstart-sysv.postinst
@@ -0,0 +1,10 @@
+#!/bin/sh
+set -e
+
+# update grub on first install, so that the alternative init system boot
+# entries get updated
+if [ "$1" = configure ] && [ -z "$2" ] && [ -e /boot/grub/grub.cfg ] && which update-grub >/dev/null 2>&1; then
+    update-grub || true
+fi
+
+#DEBHELPER#
--- upstart-1.13.2.orig/debian/upstart-xsessions
+++ upstart-1.13.2/debian/upstart-xsessions
@@ -0,0 +1,18 @@
+# xsessions listed below are run inside an Upstart user session.
+gnome
+gnome-classic
+gnome-fallback
+gnome-flashback-metacity
+gnome-flashback-compiz
+kde-plasma
+Lubuntu
+Lubuntu-Netbook
+lubuntu-nexus7
+lxgames
+qlubuntu
+ubuntu
+ubuntustudio
```

```
+xfce
+xubuntu
+unity8-x11
+unity8-mir
---
 upstart-1.13.2.orig/debian/upstart.apport
+++ upstart-1.13.2/debian/upstart.apport
@@ -0,0 +1,195 @@
+#!/usr/bin/python
+'''
+Upstart apport hook.
+
+Handles both Upstart running as PID 1 and as a Session Init
+(non-privileged user).
+
+Limitations:
+
+- does not handle non-default --logdir or --confdir.
+
+'''
+import os
+import re
+import glob
+from apport.hookutils import *
+import apport.packaging
+
+msg = \
+"""
+The contents of your Upstart job configuration files (*.conf and
+*.override) files may help developers diagnose your bug more quickly.
+However, if you have modified them, they may contain sensitive
+information.
+
+Do you want to include any modified job configuration files
+in your bug report?
+"""
+
+def add_root_file(map, file):
+    """
+    Add @file to @map such that @map can be passed to
+    attach_root_command_outputs() to have @file attached to the report
+    event if
 it is unreadable by the current user.
+    """
+    if not os.path.exists(file):
+        return
+
+    key = path_to_key(file)
```

```
+
+    map[key] = 'cat %s' % file
+
+
+def add_info(report, ui):
+    system_state_file = '/var/log/upstart/upstart.state'
+    system_conf_dir = '/etc/init'
+    session_state_file = None
+    attach_jobs = False
+    package = None
+
+    # files that are not readable by current user
+    unreadable_files = {}
+
+    # Used to determine which details to record.
+    #
+    # For crashes, hangs and recoverable problems, attach all possible
+    # information.
+    #
+    # If we are unable to determine a problem category, prompt the user.
+    category = 'Unknown'
+
+    if 'Package' in report:
+        package = report['Package'].split()[0]
+
+    problem_type = report.get('ProblemType', '')
+
+    # Determine whether this report relates to a System Init issue,
+    # or a Session Init one.
+
+    # Crashes and Hangs should be handled automatically without
+
   # prompting. Recoverable Problems should also be dealt with in this
+    # way since they are essentially informational reports so prompting
+    # the user is unnecessary and would also only give the user the wrong
+    # impression.
+    if problem_type in ('Crash', 'Hang', 'RecoverableProblem'):
+        if 'ProcStatus' in report:
+            pid_line = re.search('Pid:\t(.*)\n', report['ProcStatus'])
+            if pid_line:
+                upstart_pid = pid_line.groups()[0]
+                if upstart_pid:
+                    if int(upstart_pid) == 1:
+                        category = 'System'
+                    else:
+                        category = 'Session'
+    elif ui:
+        response = ui.choice(
```

```
+            "Upstart is used to supervise both the System and users Desktop\n"
+            "sessions. Please choose the option that is most appropriate\n"
+            "for the problem you wish to report\n",
+            ['System', 'Desktop Session'])
+        if
 response == None:
+            pass
+        if 0 in response:
+            category = 'System'
+        elif 1 in response:
+            category = 'Session'
+
+    report['UpstartBugCategory'] = category
+
+    if problem_type in ('Crash', 'Hang', 'RecoverableProblem'):
+        # crash bugs are private by default
+        attach_jobs = True
+    elif ui and ui.yesno(msg) == True:
+        attach_jobs = True
+
+    if category == 'System' or category == 'Unknown':
+        attach_file(report, '/proc/cmdline', 'ProcKernelCmdline')
+
+        # console output
+        attach_file_if_exists(report, '/var/log/boot.log', 'BootLog')
+
+        if attach_jobs == True:
+
+            # Map of files => package names where each file is an Upstart
+            # job configuration file.
+            file_map = {}
+
+            for file in \
+                glob.glob("%s/*.conf"     % system_conf_dir) + \
+                glob.glob("%s/*.override" % system_conf_dir):
+
+                # try and
 determine which package owns the file
+                owner = apport.packaging.get_file_package(file)
+
+                if owner == None:
+                    # If no package owns it, it's either an admin-created
+                    # job, or from a manually installed package, so attach.
+                    # XXX: We don't use attach_file() since, although it
+                    # handles unreadable files in a sense (by returning
+                    # an error string), it does not allow us to grab the
+                    # file contents.
+                    add_root_file(unreadable_files, file)
```

```
+                elif owner != package and owner not in set(file_map.values()):
+                    # If the file is owned by another package,
+                    # record the package name.
+                    #
+                    # XXX: note that we exclude the file if it is owned by
+                    # the Upstart package itself since the general hooks
+                    #
 already look for modified conffiles.
+                    file_map[file] = owner
+
+            # Attach all modified conffiles for all packages which
+            # provide Upstart jobs.
+            for pkg in set(file_map.values()):
+                attach_conffiles(report, pkg)
+
+    if category == 'Session' or category == 'Unknown':
+        log_dir = os.getenv('XDG_CACHE_HOME', os.path.expanduser('~/.cache/upstart/'))
+        conf_dir = os.getenv('XDG_CONFIG_HOME', os.path.expanduser('~/.config/upstart/'))
+        old_conf_dir = os.path.expanduser('~/.init/')
+        session_state_file = os.path.join(log_dir, 'upstart.state')
+
+        if attach_jobs == True:
+            for file in \
+                glob.glob("%s/*.conf"     % conf_dir) + \
+                glob.glob("%s/*.override" % conf_dir) + \
+                glob.glob("%s/*.conf"     % old_conf_dir) + \
+                glob.glob("%s/*.override" % old_conf_dir):
+                attach_file(report, file)
+
+    add_root_file(unreadable_files,
 system_state_file)
+
+    attach_root_command_outputs(report, unreadable_files)
+
+    if session_state_file:
+        attach_file_if_exists(report, session_state_file)
+
+    if os.path.exists(system_state_file) or (session_state_file and os.path.exists(session_state_file)):
+        report['Tags'] += ' ' + 'upstart-stateful-reexec-failed'
+
+    report['UpstartRunningSystemVersion'] = command_output(['initctl', '--system', 'version'])
+
+    if category == 'System' or category == 'Unknown':
+        ursysj = command_output(['initctl', '--system', 'list'])
+        report['UpstartRunningSystemJobs'] = \
+            '\n'.join(sorted(ursysj.split('\n')))
+
+    session_count = 0
```

```
+    if category == 'Session' or category == 'Unknown':
+        sessions = command_output(['initctl', 'list-sessions']).split('\n')
+        if sessions and sessions[0]:
+            session_count = len(sessions)
+            report['UpstartRunningSessionCount'] = str(session_count)
+
+
    # join the running session if possible
+    if not os.environ.get('UPSTART_SESSION', None) and session_count == 1:
+        session = sessions[0].strip().split()[1]
+        if session:
+            os.environ['UPSTART_SESSION'] = session
+
+    if os.environ.get('UPSTART_SESSION', None):
+        report['UpstartRunningSessionVersion'] = command_output(['initctl', 'version'])
+        ursesj = command_output(['initctl', 'list'])
+        report['UpstartRunningSessionJobs'] = \
+            '\n'.join(sorted(ursesj.split('\n')))
--- upstart-1.13.2.orig/debian/upstart.bash-completion
+++ upstart-1.13.2/debian/upstart.bash-completion
@@ -0,0 +1 @@
+contrib/bash_completion/upstart
--- upstart-1.13.2.orig/debian/upstart.dirs
+++ upstart-1.13.2/debian/upstart.dirs
@@ -0,0 +1,2 @@
+usr/share/apport/package-hooks
+var/log/upstart
--- upstart-1.13.2.orig/debian/upstart.docs
+++ upstart-1.13.2/debian/upstart.docs
@@ -0,0 +1,4 @@
+NEWS
+AUTHORS
+TODO
+HACKING
--- upstart-1.13.2.orig/debian/upstart.install
+++
 upstart-1.13.2/debian/upstart.install
@@ -0,0 +1,58 @@
+bin/init-checkconf usr/bin/
+bin/initctl2dot usr/bin/
+debian/conf/*.conf etc/init/
+debian/migrate-inittab.pl usr/lib/upstart/
+debian/upstart-job lib/init/
+debian/upstart-xsessions etc/
+debian/user-conf/*.conf usr/share/upstart/sessions/
+debian/xsession.d/* etc/X11/Xsession.d/
+etc/init/*.conf
+etc/dbus-1/system.d/Upstart.conf
```

+sbin/initctl
+sbin/telinit lib/sysvinit/
+sbin/reload
+sbin/restart
+sbin/start
+sbin/status
+sbin/stop
+sbin/upstart
+sbin/upstart-dbus-bridge
+sbin/upstart-event-bridge
+sbin/upstart-file-bridge
+sbin/upstart-local-bridge
+sbin/upstart-socket-bridge
+sbin/upstart-udev-bridge
+usr/share/man/man5/upstart.5
+usr/share/man/man7/control-alt-delete.7
+usr/share/man/man7/dbus-event.7
+usr/share/man/man7/drm-device-added.7
+usr/share/man/man7/graphics-device-added.7
+usr/share/man/man7/file-event.7
+usr/share/man/man7/keyboard-request.7
+usr/share/man/man7/net-device-added.7
+usr/share/man/man7/net-device-removed.7
+usr/share/man/man7/power-status-changed.7
+usr/share/man/man7/socket-event.7
+usr/share/man/man7/starting.7
+usr/share/man/man7/stopping.7
+usr/share/man/man7/session-end.7
+usr/share/man/man7/startup.7
+usr/share/man/man7/started.7
+usr/share/man/man7/stopped.7
+usr/share/man/man7/upstart.7
+usr/share/man/man8/init-checkconf.8
+usr/share/man/man8/initctl.8
+usr/share/man/man8/initctl2dot.8
+usr/share/man/man8/start.8
+usr/share/man/man8/status.8
+usr/share/man/man8/stop.8
+usr/share/man/man8/reload.8
+usr/share/man/man8/restart.8
+usr/share/man/man8/upstart.8
+usr/share/man/man8/upstart-dbus-bridge.8
+usr/share/man/man8/upstart-event-bridge.8
+usr/share/man/man8/upstart-file-bridge.8
+usr/share/man/man8/upstart-local-bridge.8
+usr/share/man/man8/upstart-socket-bridge.8
+usr/share/man/man8/upstart-udev-bridge.8
+usr/share/upstart/sessions/*

```
---
 upstart-1.13.2.orig/debian/upstart.logrotate
+++ upstart-1.13.2/debian/upstart.logrotate
@@ -0,0 +1,8 @@
+/var/log/upstart/*.log
 {
+       daily
+       missingok
+       rotate 7
+       compress
+       notifempty
+ nocreate
+}
--- upstart-1.13.2.orig/debian/upstart.maintscript
+++ upstart-1.13.2/debian/upstart.maintscript
@@ -0,0 +1 @@
+rm_conffile /etc/init/upstart-dbus-bridge.conf 1.9.1-0ubuntu4
--- upstart-1.13.2.orig/debian/upstart.manpages
+++ upstart-1.13.2/debian/upstart.manpages
@@ -0,0 +1 @@
+debian/manpages/*
--- upstart-1.13.2.orig/debian/upstart.postinst
+++ upstart-1.13.2/debian/upstart.postinst
@@ -0,0 +1,67 @@
+#!/bin/sh -e
+
+if ! ischroot; then
+ # Do not honour re-exec when requested from within a
+ # chroot since:
+ #
+ # (a) The version of Upstart outside might not support it.
+ # (b) An isolated environment such as a chroot should
+ #     not be able to modify its containing environment.
+ #
+ # A sufficiently new Upstart will actually handle a re-exec
+ # request coming from telinit within a chroot correctly,
+ # but it's simple enough to perform the check here and
 save
+ # Upstart the effort.
+
+ # Query running version of Upstart, but only when we know
+ # that initctl will work.
+ #
+ # The calculated version string may be the null string if
+ # Upstart is not running (where for example an alternative
+ # init is running outside a chroot environment) or if the
+ # query failed for some reason. However, the version check
+ # below handles a null version string correctly.
```

```
+ UPSTART_VERSION_RUNNING=$(initctl version 2>/dev/null |\
+  awk '{print $3}'|tr -d ')' || :)
+
+ if dpkg --compare-versions "$UPSTART_VERSION_RUNNING" ge 1.9 || [
"$UPSTART_VERSION_RUNNING" = 1.8-ubuntu-full-serialization ]; then
+  # We are not running inside a chroot and the running version
+  # of Upstart supports lossless stateful re-exec, so we can
+  # restart immediately.
+  #
+  # XXX: Note that the check on the running version must
+  # remain *indefinitely* since it's the only safe way to
+  # know if stateful re-exec is supported: simply checking
+  # packaged version
 numbers is not sufficient since
+  # the package could be upgraded multiple times without a
+  # reboot.
+  telinit u || :
+ elif [ "$UPSTART_JOB" = "cloud-config" ]; then
+  # If upgraded by cloud-init, do not perform partial
+  # stateful re-exec, as cloud-init instance will fail
+  # to initialise.
+  touch /var/run/init.upgraded || :
+  [ -x /usr/share/update-notifier/notify-reboot-required ] && \
+      /usr/share/update-notifier/notify-reboot-required || true
+
+ elif dpkg --compare-versions "$UPSTART_VERSION_RUNNING" ge 1.6.1; then
+  # Otherwise, perform partial stateful re-exec and
+  # request a reboot.
+  telinit u || :
+  [ -x /usr/share/update-notifier/notify-reboot-required ] && \
+      /usr/share/update-notifier/notify-reboot-required || true
+ else
+  # Before we shutdown or reboot, we need to re-exec so that we
+  # can safely remount the root filesystem; we can't just do that
+  # here because we lose state.
+  touch /var/run/init.upgraded || :
+ fi
+fi
+
+#
 update grub on first install, so that the alternative init system boot
+# entries get updated
+if [ "$1" = configure ] && [ -z "$2" ] && [ -e /boot/grub/grub.cfg ] && which update-grub >/dev/null 2>&1; then
+    update-grub || true
+fi
+
+#DEBHELPER#
--- upstart-1.13.2.orig/debian/upstart.upstart.cron.daily
```

```
+++ upstart-1.13.2/debian/upstart.upstart.cron.daily
@@ -0,0 +1,34 @@
+#!/bin/sh
+
+# For each Upstart Session Init, emit "rotate-logs" event, requesting
+# the session Inits to rotate their logs. There is no user-daily cron.
+#
+# Doing it this way does not rely on System Upstart, nor
+# upstart-event-bridge(8) running in the Session Init.
+#
+# Note that system-level Upstart logs are handled separately using a
+# logrotate script.
+
+[ -x /sbin/initctl ] || exit 0
+
+for file in /run/user/*/upstart/sessions/*.session
+do
+    [ -f "$file" ] || continue
+    [ -h "$file" ] && continue
+
+    file_uid=$(stat -c %u "$file")
+    [ -n "$file_uid" ] || continue
+
+    session=$(grep
 \
+     "^UPSTART_SESSION=unix:abstract=/com/ubuntu/upstart-session/[0-9][0-9]*/[0-9][0-9]*$" \
+     "$file" 2>/dev/null || true)
+    [ -n "$session" ] || continue
+
+    session_uid=$(echo "$session" | cut -d\/ -f5)
+    [ -n "$session_uid" ] || continue
+
+    # Don't allow a user to spoof logrotation for another user.
+    [ "$file_uid" = "$session_uid" ] || continue
+
+    env -i "$session" /sbin/initctl emit rotate-logs >/dev/null 2>&1 || true
+done
--- upstart-1.13.2.orig/debian/user-conf/logrotate.conf
+++ upstart-1.13.2/debian/user-conf/logrotate.conf
@@ -0,0 +1,66 @@
+# logrotate - rotate Upstart job log files to conserve disk space.
+#
+# Currently runs automatically 1 minute after session starts (to give
+# jobs a chance to settle). However, can be run manually any time using
+# 'start logrotate' to force logs to be rotated in low-disk space
+# scenarios.
+
+description "Rotate job log files"
```

```
+
+start on startup or :sys:rotate-logs or rotate-logs
+
+task
+
+pre-start script
+
+logrotate=$(command
 -v logrotate 2>/dev/null || :)
+
+# logrotate is not installed
+[ -z "$logrotate" ] && exit 0
+
+# started by event, so run logrotate normally
+[ -n "$UPSTART_EVENTS" ] && exit 0
+
+# started manually, so force a rotation
+initctl set-env FORCE=--force
+
+end script
+
+script
+
+# started by event, so allow time for main jobs to settle
+[ -n "$UPSTART_EVENTS" ] && [ "$UPSTART_EVENTS" = startup ] && sleep 60
+
+statedir=${XDG_CACHE_HOME:-$HOME/.cache}/logrotate
+statefile="$statedir/status"
+
+logdir=${XDG_CACHE_HOME:-$HOME/.cache}/upstart
+
+mkdir -p "$statedir" || :
+mkdir -p "$logdir" || :
+
+# Sometimes the state file can become corrupt (probably caused by
+# logrotate updating it on shutdown). In these cases the file ends in
+# nul bytes which causes a subsequent logrotate run (even a forced run)
+# to refuse to process it meaning no files get rotated.
+#
+# Hence, if nul bytes are detected, reset the state file to allow logrotate
+# to work.
+[ -e "$statefile"
 ] && egrep '[^[:print:]]' "$statefile" && rm "$statefile"
+
+conf=$(mktemp)
+
+cat <<EOF >$conf
+"$logdir/*.log" {
```

```
+       hourly
+       missingok
+       rotate 7
+       compress
+       notifempty
+       nocreate
+}
+EOF
+
+logrotate $FORCE -s "$statefile" "$conf" || :
+rm -f "$conf"
+end script
--- upstart-1.13.2.orig/debian/user-conf/xsession-init.conf
+++ upstart-1.13.2/debian/user-conf/xsession-init.conf
@@ -0,0 +1,14 @@
+description "XSession handling"
+author "Stéphane Graber <stgraber@ubuntu.com>"
+
+start on startup
+emits xsession
+
+pre-start script
+    [ -z "$DESKTOP_SESSION" ] && stop || true
+    [ "$SESSIONTYPE" = "gnome-session" ] && initctl set-env --global GNOME_DESKTOP_SESSION_ID=this-is-deprecated || true
+end script
+
+script
+    exec initctl emit xsession SESSION=$DESKTOP_SESSION SESSIONTYPE=$SESSIONTYPE
+end script
--- upstart-1.13.2.orig/debian/watch
+++ upstart-1.13.2/debian/watch
@@ -0,0 +1,2 @@
+version=3
+http://upstart.ubuntu.com/download/([\d\.]+)/upstart-(.*)\.tar\.gz
---
 upstart-1.13.2.orig/debian/xsession.d/00upstart
+++ upstart-1.13.2/debian/xsession.d/00upstart
@@ -0,0 +1,12 @@
+# Make ubuntu-upstart an alias for ubuntu
+if grep -q "^$DESKTOP_SESSION\$" /etc/upstart-xsessions; then
+    export XDG_CONFIG_DIRS="/usr/share/upstart/xdg:/etc/xdg"
+
+    BASESESSION=${1% *}
+    BASESESSION=${BASESESSION##*/}
+    if [ "$BASESESSION" = x-session-manager ]; then
+        BASESESSION=$(basename $(readlink /etc/alternatives/x-session-manager))
+    fi
```

```
+
+    UPSTART=1
+fi
--- upstart-1.13.2.orig/debian/xsession.d/99upstart
+++ upstart-1.13.2/debian/xsession.d/99upstart
@@ -0,0 +1,14 @@
+# Start the user session
+if [ -n "$UPSTART" ]; then
+    case "$BASESESSION" in
+        gnome-session*|gnome-flashback*)
+            export SESSIONTYPE=gnome-session
+            ;;
+        lxsession*)
+            export SESSIONTYPE=lxsession
+            ;;
+    esac
+
+    STARTUP="/sbin/upstart --user"
+    unset UPSTART
+fi
---
 upstart-1.13.2.orig/extra/Makefile.am
+++ upstart-1.13.2/extra/Makefile.am
@@ -23,6 +23,7 @@
 conf-session/upstart-event-bridge.conf \
 conf-session/upstart-file-bridge.conf \
 conf-session/re-exec.conf \
+ conf-session/upstart-udev-bridge.conf \
 conf-session/upstart-dbus-session-bridge.conf \
 conf-session/upstart-dbus-system-bridge.conf

@@ -33,7 +34,6 @@

dist_init_DATA = \
 conf/upstart-socket-bridge.conf \
- conf/upstart-event-bridge.conf \
 conf/upstart-file-bridge.conf \
 conf/upstart-dbus-bridge.conf

@@ -106,8 +106,9 @@
upstart_local_bridge_SOURCES = \
 upstart-local-bridge.c
nodist_upstart_local_bridge_SOURCES = \
+ $(org_freedesktop_systemd1_OUTPUTS) \
 $(com_ubuntu_Upstart_OUTPUTS) \
- $(com_ubuntu_Upstart_Job_OUTPUTS)
+ $(control_com_ubuntu_Upstart_OUTPUTS)
upstart_local_bridge_LDADD = \
```

```
 $(LTLIBINTL) \
 $(NIH_LIBS) \
@@ -224,15 +225,50 @@
  --output=$@ $<


+org_freedesktop_systemd1_OUTPUTS = \
+ org.freedesktop.systemd1.c \
+ org.freedesktop.systemd1.h
+
+org_freedesktop_systemd1_XML
 = \
+ org.freedesktop.systemd1.xml
+
+$(org_freedesktop_systemd1_OUTPUTS): $(org_freedesktop_systemd1_XML)
+ $(AM_V_GEN)$(NIH_DBUS_TOOL) \
+  --package=$(PACKAGE) \
+  --mode=proxy --prefix=systemd \
+  --default-interface=org.freedesktop.systemd1.Manager \
+  --output=$@ $<
+
+# Server for upstart-local-bridge
+control_com_ubuntu_Upstart_OUTPUTS = \
+ control_com.ubuntu.Upstart.c \
+ control_com.ubuntu.Upstart.h
+
+control_com_ubuntu_Upstart_XML = \
+ com.ubuntu.Upstart.xml
+
+$(control_com_ubuntu_Upstart_OUTPUTS): $(control_com_ubuntu_Upstart_XML)
+ $(AM_V_GEN)$(NIH_DBUS_TOOL) \
+  --package=$(PACKAGE) \
+  --mode=object --prefix=control \
+  --default-interface=com.ubuntu.Upstart0_6 \
+  --output=$@ $<
+
+
+
 # These have to be built sources because we can't compile object files
 # without the header file existing first
 BUILT_SOURCES = \
  $(com_ubuntu_Upstart_OUTPUTS) \
- $(com_ubuntu_Upstart_Job_OUTPUTS)
+ $(control_com_ubuntu_Upstart_OUTPUTS)
+ \
+ $(com_ubuntu_Upstart_Job_OUTPUTS) \
+ $(org_freedesktop_systemd1_OUTPUTS)
```

```
CLEANFILES = \
 $(com_ubuntu_Upstart_OUTPUTS) \
- $(com_ubuntu_Upstart_Job_OUTPUTS)
+ $(control_com_ubuntu_Upstart_OUTPUTS) \
+ $(com_ubuntu_Upstart_Job_OUTPUTS) \
+ $(org_freedesktop_systemd1_OUTPUTS)


clean-local:
--- upstart-1.13.2.orig/extra/com.ubuntu.Upstart.xml
+++ upstart-1.13.2/extra/com.ubuntu.Upstart.xml
@@ -0,0 +1,29 @@
+<?xml version="1.0" encoding="UTF-8" ?>
+<!-- upstart
+
+     com.ubuntu.Upstart.xml - interface definition for manager object
+
+     Copyright © 2009 Canonical Ltd.
+     Author: Scott James Remnant <scott@netsplit.com>.
+
+     This file is free software; Canonical Ltd gives unlimited permission
+     to copy and/or distribute it, with or without modifications, as long
+     as this notice is preserved.
+
+     Communication and interaction with Upstart through this interface is
+     permitted without restriction.
+  -->
+
+<!DOCTYPE node PUBLIC
+  "-//freedesktop//DTD
+ D-BUS Object Introspection 1.0//EN"
+  "http://www.freedesktop.org/standards/dbus/1.0/introspect.dtd">
+
+<node name="/com/ubuntu/Upstart">
+  <interface name="com.ubuntu.Upstart0_6">
+    <!-- Signal for events being emitted -->
+    <signal name="EventEmitted">
+      <arg name="name" type="s" />
+      <arg name="env" type="as" />
+    </signal>
+  </interface>
+</node>
--- upstart-1.13.2.orig/extra/conf-session/upstart-udev-bridge.conf
+++ upstart-1.13.2/extra/conf-session/upstart-udev-bridge.conf
@@ -0,0 +1,22 @@
+# upstart-udev-bridge - Bridge udev events into session upstart
+#
+# This helper daemon receives udev events from the netlink socket and
```

```
+# emits equivalent Upstart events.
+
+description "Bridge udev events into upstart"
+
+# From upstart-udev-bridge itself
+emits *-device-added
+emits *-device-removed
+emits *-device-changed
+# From http://www.kernel.org/pub/linux/utils/kernel/hotplug/libudev/libudev-udev-device.html
+emits *-device-online
+emits *-device-offline
+
+start
 on startup
+stop on desktop-end
+
+expect daemon
+respawn
+
+exec upstart-udev-bridge --daemon --user
--- upstart-1.13.2.orig/extra/org.freedesktop.systemd1.xml
+++ upstart-1.13.2/extra/org.freedesktop.systemd1.xml
@@ -0,0 +1,19 @@
+<?xml version="1.0" encoding="UTF-8" ?>
+<!--
+     org.freedesktop.systemd1- interface definition for systemd manager object
+
+     Public Domain
+
+     Generated file using gdbus introspect call against systemd1 instance
+  -->
+<!DOCTYPE node PUBLIC "-//freedesktop//DTD D-BUS Object Introspection 1.0//EN"
+"http://www.freedesktop.org/standards/dbus/1.0/introspect.dtd">
+<node>
+ <interface name="org.freedesktop.systemd1.Manager">
+  <method name="StartUnit">
+   <arg name="name" type="s" direction="in"/>
+   <arg name="mode" type="s" direction="in"/>
+   <arg name="job" type="o" direction="out"/>
+  </method>
+ </interface>
+</node>
--- upstart-1.13.2.orig/extra/upstart-event-bridge.c
+++ upstart-1.13.2/extra/upstart-event-bridge.c
@@ -26,6 +26,9
  @@
#include <stdlib.h>
#include <string.h>
```

```
#include <ctype.h>
+#include <sys/types.h>
+#include <sys/stat.h>
+#include <unistd.h>

#include <nih/macros.h>
#include <nih/alloc.h>
@@ -42,8 +45,10 @@
#include "dbus/upstart.h"
#include "com.ubuntu.Upstart.h"

+#define DBUS_ADDRESS_LOCAL "unix:abstract=/com/ubuntu/upstart/local/bridge"

/* Prototypes for static functions */
+static int  systemd_booted       (void);
static void upstart_disconnected (DBusConnection *connection);
static void upstart_forward_event    (void *data, NihDBusMessage *message,
     const char *path);
@@ -60,6 +65,14 @@
static int daemonise = FALSE;

/**
+ * local:
+ *
+ * Set to TRUE if we should connect to upstart-local-bridge instead of
+ * the system init.
+ **/
+static int local = FALSE;
+
+/**
 * system_upstart:
 *
 * Proxy to system Upstart daemon.
@@ -119,9 +132,14 @@
  exit (1);
 }

- /* Initialise the connection to system Upstart */
- system_connection = NIH_SHOULD (nih_dbus_bus (DBUS_BUS_SYSTEM,
 upstart_disconnected));
+ local = systemd_booted ();

+ /* Initialise the connection to system Upstart */
+ if (local) {
+  system_connection = NIH_SHOULD (nih_dbus_connect (DBUS_ADDRESS_LOCAL, upstart_disconnected));
+ } else {
+  system_connection = NIH_SHOULD (nih_dbus_bus (DBUS_BUS_SYSTEM, upstart_disconnected));
+ }
```

```
 if (! system_connection) {
  NihError *err;

@@ -134,7 +152,7 @@
 }

 system_upstart = NIH_SHOULD (nih_dbus_proxy_new (NULL, system_connection,
-        DBUS_SERVICE_UPSTART, DBUS_PATH_UPSTART,
+        NULL, DBUS_PATH_UPSTART,
        NULL, NULL));
 if (! system_upstart) {
  NihError *err;
@@ -259,6 +277,20 @@
 return ret;
}

+static int
+systemd_booted (void)
+{
+ struct stat st;
+
+ if (lstat ("/run/systemd/system/", &st) == 0) {
+  if (S_ISDIR(st.st_mode)) {
+   return TRUE;
+  }
+ }
+
+ return FALSE;
+}
+
static void
upstart_disconnected (DBusConnection *connection)
{
@@ -293,7 +325,11 @@
 nih_assert (event_name != NULL);

 /* Build
 the new event name */
- NIH_MUST (nih_strcat_sprintf (&new_event_name, NULL, ":sys:%s", event_name));
+ if (local) {
+  new_event_name = NIH_MUST (nih_strdup (NULL, event_name));
+ } else {
+  new_event_name = NIH_MUST (nih_sprintf (NULL, ":sys:%s", event_name));
+ }

 /* Re-transmit the event */
 pending_call = upstart_emit_event (user_upstart,
--- upstart-1.13.2.orig/extra/upstart-local-bridge.c
```

```
+++ upstart-1.13.2/extra/upstart-local-bridge.c
@@ -22,10 +22,14 @@
#endif /* HAVE_CONFIG_H */

#include <sys/types.h>
+#include <sys/stat.h>
#include <sys/socket.h>
#include <sys/un.h>
+#include <sys/types.h>
+#include <sys/wait.h>

#include <errno.h>
+#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <syslog.h>
@@ -45,24 +49,17 @@

#include <nih-dbus/dbus_connection.h>
#include <nih-dbus/dbus_proxy.h>
+#include <nih-dbus/dbus_object.h>

#include "dbus/upstart.h"
#include "com.ubuntu.Upstart.h"
-#include "com.ubuntu.Upstart.Job.h"
+#include "org.freedesktop.systemd1.h"
+#include
 "control_com.ubuntu.Upstart.h"

-/**
- * Job:
- *
- * @entry: list header,
- * @path: D-Bus path for a job.
- *
- * Representation of an Upstart Job.
- *
- **/
-typedef struct job {
- NihList entry;
- char *path;
-} Job;
+#define DBUS_ADDRESS_SYSTEMD "unix:path=/run/systemd/private"
+#define DBUS_PATH_SYSTEMD "/org/freedesktop/systemd1"
+#define DBUS_SERVICE_SYSTEMD "org.freedesktop.systemd1"
+#define DBUS_ADDRESS_LOCAL "unix:abstract=/com/ubuntu/upstart/local/bridge"

/**
```

```
 * Socket:
@@ -100,12 +97,14 @@
 struct ucred   ucred;
} ClientConnection;

-static void upstart_job_added    (void *data, NihDBusMessage *message,
-      const char *job);
-static void upstart_job_removed  (void *data, NihDBusMessage *message,
-      const char *job);
static void upstart_connect      (void);
-static void upstart_disconnected (DBusConnection *connection);
+static void systemd_connect      (void);
+static int  systemd_booted       (void);
+static int  control_server_open
+  (void);
+static int  control_server_connect (DBusServer *server,
+        DBusConnection *conn);
+static void control_disconnected   (DBusConnection *conn);
+static void init_disconnected (DBusConnection *connection);

static Socket *create_socket (void *parent);

@@ -121,6 +120,8 @@

static void emit_event (ClientConnection *client, const char *pair, size_t len);

+static void process_event (ClientConnection *client, const char *pair, size_t len);
+
static void signal_handler (void *data, NihSignal *signal);

static void cleanup (void);
@@ -134,23 +135,39 @@
static int daemonise = FALSE;

/**
- * jobs:
+ * upstart:
 *
- * Jobs that we're monitoring.
+ * Proxy to Upstart daemon.
 **/
-static NihHash *jobs = NULL;
+static NihDBusProxy *upstart = NULL;

/**
- * upstart:
+ * systemd:
 *
```

```
- * Proxy to Upstart daemon.
+ * Proxy to systemd daemon.
 **/
-static NihDBusProxy *upstart = NULL;
+static NihDBusProxy *systemd = NULL;
+
+/**
+ * control_server
+ *
+ * D-Bus
 server listening for new direct connections.
+ **/
+DBusServer *control_server = NULL;
+
+/**
+ * control_conns:
+ *
+ * Open control connections, including the connection to a D-Bus
+ * bus and any private client connections.
+ **/
+NihList *control_conns = NULL;

/**
 * event_name:
 *
- * Name of event this bridge emits.
+ * upstart: Name of event this bridge emits.
+ * systmed: Name of target this generator creates.
 **/
static char *event_name = NULL;

@@ -202,7 +219,7 @@
 { 0, "daemon", N_("Detach and run in the background"),
   NULL, NULL, &daemonise, NULL },

- { 0, "event", N_("specify name of event to emit on receipt of name=value pair"),
+ { 0, "event", N_("specify name of event to emit / target to generate on receipt of name=value pair"),
  NULL, "EVENT", &event_name, NULL },

 { 0, "any-user", N_("allow any user to connect"),
@@ -258,7 +275,7 @@

 nih_main_init (argv[0]);

- nih_option_set_synopsis (_("Local socket Upstart Bridge"));
+ nih_option_set_synopsis
 (_("Local socket Upstart Bridge & systemd generator"));
 nih_option_set_help (
```

```
  _("By default, this bridge does not detach from the "
    "console and remains in the foreground.  Use the --daemon "
@@ -273,9 +290,6 @@
  exit (1);
 }

- /* Allocate jobs hash table */
- jobs = NIH_MUST (nih_hash_string_new (NULL, 0));
-
 sock = create_socket (NULL);
 if (! sock) {
  nih_fatal ("%s %s",
@@ -286,7 +300,26 @@

 nih_debug ("Connected to socket '%s' on fd %d", socket_name, sock->sock);

- upstart_connect ();
+ if (systemd_booted() == TRUE) {
+  systemd_connect ();
+ } else {
+  upstart_connect ();
+ }
+
+ control_conns = NIH_MUST (nih_list_new (NULL));
+
+       while ((ret = control_server_open ()) < 0) {
+  NihError *err;
+
+               err = nih_error_get ();
+               if (err->number != ENOMEM) {
+                       nih_warn ("%s: %s", _("Unable to listen for private"
+           "connections"), err->message);
+                       nih_free (err);
+   break;
+
+             }
+               nih_free (err);
+       }

 /* Become daemon */
 if (daemonise) {
@@ -326,103 +359,14 @@
 return ret;
}

-static void
-upstart_job_added (void            *data,
-     NihDBusMessage  *message,
```

```
-     const char      *job_class_path)
-{
- nih_local NihDBusProxy *job_class = NULL;
- nih_local char ***start_on = NULL;
- nih_local char ***stop_on = NULL;
- Job *job;
-
- nih_assert (job_class_path != NULL);
-
- /* Obtain a proxy to the job */
- job_class = nih_dbus_proxy_new (NULL, upstart->connection,
-     upstart->name, job_class_path,
-     NULL, NULL);
- if (! job_class) {
-  NihError *err;
-
-  err = nih_error_get ();
-  nih_error ("Could not create proxy for job %s: %s",
-      job_class_path, err->message);
-  nih_free (err);
-
-  return;
- }
-
- job_class->auto_start = FALSE;
-
- /* Obtain the start_on and stop_on properties of the job */
- if (job_class_get_start_on_sync (NULL, job_class, &start_on) < 0) {
-  NihError *err;
-
-  err
   = nih_error_get ();
-  nih_error ("Could not obtain job start condition %s: %s",
-      job_class_path, err->message);
-  nih_free (err);
-
-  return;
- }
-
- if (job_class_get_stop_on_sync (NULL, job_class, &stop_on) < 0) {
-  NihError *err;
-
-  err = nih_error_get ();
-  nih_error ("Could not obtain job stop condition %s: %s",
-      job_class_path, err->message);
-  nih_free (err);
-
-  return;
```

```
- }
-
- /* Free any existing record for the job (should never happen,
-  * but worth being safe).
-  */
- job = (Job *)nih_hash_lookup (jobs, job_class_path);
- if (job)
-  nih_free (job);
-
- /* Create new record for the job */
- job = NIH_MUST (nih_new (NULL, Job));
- job->path = NIH_MUST (nih_strdup (job, job_class_path));
-
- nih_list_init (&job->entry);
-
- nih_debug ("Job got added %s", job_class_path);
-
- nih_alloc_set_destructor (job, nih_list_destroy);
-
- /* Add all jobs */
- nih_hash_add (jobs, &job->entry);
-}
-
-static void
-upstart_job_removed (void            *data,
-       NihDBusMessage
  *message,
-       const char      *job_path)
-{
- Job *job;
-
- nih_assert (job_path != NULL);
-
- job = (Job *)nih_hash_lookup (jobs, job_path);
- if (job) {
-  nih_debug ("Job went away %s", job_path);
-  nih_free (job);
- }
-}

static void
upstart_connect (void)
{
 DBusConnection    *connection;
- char            **job_class_paths;

 /* Initialise the connection to Upstart */
- connection = NIH_SHOULD (nih_dbus_connect (DBUS_ADDRESS_UPSTART, upstart_disconnected));
```

```
+ connection = NIH_SHOULD (nih_dbus_connect (DBUS_ADDRESS_UPSTART, init_disconnected));
 if (! connection) {
  NihError *err;

@@ -449,59 +393,169 @@
 }

 nih_debug ("Connected to Upstart");
+}

- /* Connect signals to be notified when jobs come and go */
- if (! nih_dbus_proxy_connect (upstart, &upstart_com_ubuntu_Upstart0_6, "JobAdded",
-         (NihDBusSignalHandler)upstart_job_added, NULL)) {
+static void
+systemd_connect (void)
+{
+ DBusConnection    *connection;
+
+ /* Initialise the connection
  to systemd */
+ /* /run/systemd/private is supposedly "private" end-point
+  * which systemctl & libsystemd use */
+ connection = NIH_SHOULD (nih_dbus_connect (DBUS_ADDRESS_SYSTEMD, init_disconnected));
+ if (! connection) {
  NihError *err;

  err = nih_error_get ();
-  nih_fatal ("%s: %s", _("Could not create JobAdded signal connection"),
+  nih_fatal ("%s: %s", _("Could not connect to systemd"),
      err->message);
  nih_free (err);

  exit (1);
 }

- if (! nih_dbus_proxy_connect (upstart, &upstart_com_ubuntu_Upstart0_6, "JobRemoved",
-         (NihDBusSignalHandler)upstart_job_removed, NULL)) {
+ systemd = NIH_SHOULD (nih_dbus_proxy_new (NULL, connection,
+        NULL, DBUS_PATH_SYSTEMD,
+        NULL, NULL));
+ if (! systemd) {
  NihError *err;

  err = nih_error_get ();
-  nih_fatal ("%s: %s", _("Could not create JobRemoved signal connection"),
+  nih_fatal ("%s: %s", _("Could not create systemd proxy"),
      err->message);
  nih_free (err);
```

```
 exit
(1);
 }

- /* Request a list of all current jobs */
- if (upstart_get_all_jobs_sync (NULL, upstart, &job_class_paths) < 0) {
-  NihError *err;
-
-  err = nih_error_get ();
-  nih_fatal ("%s: %s", _("Could not obtain job list"),
-      err->message);
-  nih_free (err);
-
+ FILE *fp = NULL;
+ nih_local char *template_name = NULL;
+
+ template_name = NIH_MUST (nih_sprintf (NULL, "/run/systemd/system/%s@.target", event_name));
+
+ fp = NIH_SHOULD (fopen(template_name, "we"));
+ if (!fp) {
+  nih_fatal ("%s %s", _("Failed to create target template"),
+     strerror (errno));
  exit (1);
 }
+ fprintf (fp,
+  "# Automatically generated by %s\n\n"
+  "[Unit]\n"
+  "Description=Local bridge key value pairs\n"
+  "Documentation=man:%s\n",
+  program_name, program_name);
+ fflush (fp);
+ if (ferror (fp)) {
+  nih_fatal ("%s %s", _("Failed to write target template"),
+      strerror (errno));
+  exit (1);
+ }
+ fclose (fp);

- for (char **job_class_path = job_class_paths;
-      job_class_path
  && *job_class_path; job_class_path++)
-  upstart_job_added (NULL, NULL, *job_class_path);
+ nih_debug ("Connected to systemd");
+}
+
+static int
+systemd_booted (void)
```

```
+{
+ struct stat st;

- nih_free (job_class_paths);
+ if (lstat ("/run/systemd/system/", &st) == 0) {
+  if (S_ISDIR(st.st_mode)) {
+   return TRUE;
+  }
+ }
+
+ return FALSE;
}

static void
-upstart_disconnected (DBusConnection *connection)
+init_disconnected (DBusConnection *connection)
{
- nih_fatal (_("Disconnected from Upstart"));
+ nih_fatal (_("Disconnected from init"));
 nih_main_loop_exit (1);
}

/**
+ * control_server_open:
+ *
+ * Open a listening D-Bus server and store it in the control_server global.
+ * New connections are permitted from the root user, and handled
+ * automatically in the main loop.
+ *
+ * Returns: zero on success, negative value on raised error.
+ **/
+
+int
+control_server_open (void)
+{
+ nih_assert (control_server == NULL);
+
+ control_server = nih_dbus_server (DBUS_ADDRESS_LOCAL,
+
  control_server_connect,
+       control_disconnected);
+ if (! control_server)
+  return -1;
+
+ nih_debug("D-Bus server started at address: %s", DBUS_ADDRESS_LOCAL);
+
+ return 0;
+}
```

```
+
+/**
+ * control_server_connect:
+ *
+ * Called when a new client connects to our server and is used to register
+ * objects on the new connection.
+ *
+ * Returns: always TRUE.
+ **/
+static int
+control_server_connect (DBusServer     *server,
+   DBusConnection *conn)
+{
+ nih_assert (server != NULL);
+ nih_assert (server == control_server);
+ nih_assert (conn != NULL);
+ NihListEntry *entry = NULL;
+
+ /* Register objects on the connection. */
+ NIH_MUST (nih_dbus_object_new (NULL, conn, DBUS_PATH_UPSTART,
+           control_interfaces, NULL));
+
+
+ entry = NIH_MUST (nih_list_entry_new (NULL));
+ entry->data = conn;
+ nih_list_add (control_conns, &entry->entry);
+ nih_debug("Connection from private client");
+
+ return TRUE;
+}
+
+/**
+ * control_disconnected:
+ *
+ * This function is
 called when the connection to the D-Bus system bus,
+ * or a client connection to our D-Bus server, is dropped and our reference
+ * is about to be list.  We clear the connection from our current list
+ * and drop the control_bus global if relevant.
+ **/
+static void
+control_disconnected (DBusConnection *conn)
+{
+ nih_assert (conn != NULL);
+       /* Remove from the connections list */
+       NIH_LIST_FOREACH_SAFE (control_conns, iter) {
+             NihListEntry *entry = (NihListEntry *)iter;
+
```

```
+                if (entry->data == conn)
+                        nih_free (entry);
+        }
+}
+
+/**
 * socket_watcher:
 *
 * @sock: Socket,
@@ -645,7 +699,7 @@
  if (used_len < min_len)
   continue;

-  emit_event (client, pair, used_len);
+  process_event (client, pair, used_len);
 }

 /* Consume the entire length */
@@ -724,6 +778,8 @@
 /* Handle abstract names */
 if (sock->sun_addr.sun_path[0] == '@')
  sock->sun_addr.sun_path[0] = '\0';
+ else
+  (void) unlink(sock->sun_addr.sun_path);

 sock->sock = socket (sock->addr.sa_family, SOCK_STREAM, 0);
 if (sock->sock < 0) {
@@ -830,17 +886,102 @@
 /* Add the name=value pair */
 NIH_MUST (nih_str_array_addn (&env, NULL, NULL, pair, len));

- pending_call = upstart_emit_event (upstart,
-   event_name, env, FALSE,
-   NULL, emit_event_error, NULL,
-   NIH_DBUS_TIMEOUT_NEVER);
+ if (upstart) {
+  pending_call = upstart_emit_event (upstart,
+         event_name, env, FALSE,
+         NULL, emit_event_error, NULL,
+         NIH_DBUS_TIMEOUT_NEVER);
+
+  if (! pending_call) {
+   NihError *err;
+   err = nih_error_get ();
+   nih_warn ("%s", err->message);
+   nih_free (err);
+  }
+
```

```
+  dbus_pending_call_unref (pending_call);
+ }
+
+ NIH_LIST_FOREACH (control_conns, iter) {
+  NihListEntry   *entry = (NihListEntry *)iter;
+  DBusConnection *conn = (DBusConnection *)entry->data;
+
+  NIH_ZERO (control_emit_event_emitted (conn, DBUS_PATH_UPSTART,
+          event_name, env));
+ }

- if (! pending_call)
 {
+}
+
+static void
+systemd_launch_instance (ClientConnection  *client,
+     const char        *pair,
+     size_t             len)
+{
+ nih_local char     *safe_pair = NULL;
+ nih_local char    **key_value = NULL;
+ nih_local char     *group_name = NULL;
+ nih_local char     *unit_name = NULL;
+ nih_local char     *job_name = NULL;
+
+ nih_assert  (client);
+ nih_assert  (pair);
+ nih_assert  (len);
+
+ /* Why is pair not null-terminated?! */
+ safe_pair = NIH_MUST (nih_strndup (NULL, pair, len));
+
+ /* Get key val from the key=val pair */
+ key_value = NIH_MUST (nih_str_split (NULL, safe_pair, "=", TRUE));
+
+ /* Construct systemd event@key=*.target group name */
+ group_name = NIH_MUST (nih_sprintf (NULL, "%s@%s=*.target",
+         event_name, key_value[0]));
+
+ /* Construct systemd event@key=value.target unit name */
+ unit_name = NIH_MUST (nih_sprintf (NULL, "%s@%s\\x3d%s.target",
+        event_name, key_value[0],
+        key_value[1]));
+
+ /* Stop group */
+ int
```

```
 pid = -1;
+ siginfo_t info;
+ do {
+  pid = fork ();
+ } while (pid < 0);
+
+ if (pid) {
+  info.si_code = 0;
+  info.si_status = 0;
+  if (waitid (P_PID, pid, &info, WEXITED)) {
+   nih_fatal ("%s %s", _("Failed to wait for systemctl"),
+       strerror (errno));
+  }
+               if (info.si_code != CLD_EXITED || info.si_status) {
+                       nih_fatal ("Bad systemctl exit code %i and status %i\n", info.si_code, info.si_status);
+               }
+ } else {
+  /* Create and submit stop state transition, do not wait to complete */
+  execlp ("systemctl", "systemctl", "--no-block", "stop", group_name, (char *)NULL);
+ }
+
+ /* Create and submit start state transition, do not wait to complete */
+ if (systemd_start_unit_sync (NULL, systemd, unit_name, "replace", &job_name)) {
  NihError *err;
  err = nih_error_get ();
  nih_warn ("%s", err->message);
  nih_free (err);
 }
+}
+


- dbus_pending_call_unref (pending_call);
+static void
+process_event (ClientConnection
  *client,
+     const char        *pair,
+     size_t            len)
+{
+ emit_event (client, pair, len);
+
+ if (systemd) {
+  systemd_launch_instance (client, pair, len);
+ }
}
--- upstart-1.13.2.orig/extra/upstart-udev-bridge.c
+++ upstart-1.13.2/extra/upstart-udev-bridge.c
@@ -69,6 +69,15 @@
static NihDBusProxy *upstart = NULL;
```

```
/**
+ * user:
+ *
+ * If TRUE, run in User Session mode connecting to the Session Init
+ * rather than PID 1. In this mode, certain relative paths are also
+ * expanded.
+ **/
+static int user = FALSE;
+
+/**
 * no_strip_udev_data:
 *
 * If TRUE, do not modify any udev message data (old behaviour).
@@ -86,6 +95,8 @@
   NULL, NULL, &daemonise, NULL },
 { 0, "no-strip", N_("Do not strip non-printable bytes from udev message data"),
   NULL, NULL, &no_strip_udev_data, NULL },
+ { 0, "user", N_("Connect to user session"),
+   NULL, NULL, &user, NULL },

 NIH_OPTION_LAST
};
@@ -97,6 +108,11 @@
{
 char **             args;
 DBusConnection
 *     connection;
+ char *              pidfile_path = NULL;
+ char *              pidfile = NULL;
+ char               *user_session_addr = NULL;
+ nih_local char **    user_session_path = NULL;
+ char *              path_element = NULL;
 struct udev *        udev;
 struct udev_monitor *udev_monitor;
 int                 ret;
@@ -113,8 +129,19 @@
 if (! args)
  exit (1);

+ if (user) {
+  user_session_addr = getenv ("UPSTART_SESSION");
+  if (! user_session_addr) {
+   nih_fatal (_("UPSTART_SESSION isn't set in environment"));
+   exit (EXIT_FAILURE);
+  }
+ }
+
```

```
 /* Initialise the connection to Upstart */
- connection = NIH_SHOULD (nih_dbus_connect (DBUS_ADDRESS_UPSTART, upstart_disconnected));
+ connection = NIH_SHOULD (nih_dbus_connect (user
+    ? user_session_addr
+    : DBUS_ADDRESS_UPSTART,
+    upstart_disconnected));
 if (! connection) {
  NihError *err;

@@ -153,6 +180,35 @@

 /* Become daemon */
 if (daemonise) {
+  /* Deal with the pidfile location
 when becoming a daemon.
+   * We need to be able to run one bridge per upstart daemon.
+   * Store the PID file in XDG_RUNTIME_DIR or HOME and include the pid of
+   * the Upstart instance (last part of the DBus path) in the filename.
+   */
+
+  if (user) {
+   /* Extract PID from UPSTART_SESSION */
+   user_session_path = nih_str_split (NULL, user_session_addr, "/", TRUE);
+
+   for (int i = 0; user_session_path && user_session_path[i]; i++)
+    path_element = user_session_path[i];
+
+   if (! path_element) {
+    nih_fatal (_("Invalid value for UPSTART_SESSION"));
+    exit (1);
+   }
+
+   pidfile_path = getenv ("XDG_RUNTIME_DIR");
+   if (!pidfile_path)
+    pidfile_path = getenv ("HOME");
+
+   if (pidfile_path) {
+    NIH_MUST (nih_strcat_sprintf (&pidfile, NULL, "%s/%s.%s.pid",
+              pidfile_path, program_invocation_short_name, path_element));
+    nih_main_set_pidfile (pidfile);
+   }
+  }
+
  if (nih_main_daemonise () < 0) {
   NihError *err;

@@ -163,10 +219,12
```

```
 @@

   exit (1);
  }
-
-  /* Send all logging output to syslog */
-  openlog (program_name, LOG_PID, LOG_DAEMON);
-  nih_log_set_logger (nih_logger_syslog);
+
+  if (!user) {
+    /* Send all logging output to syslog for system bridge */
+    openlog (program_name, LOG_PID, LOG_DAEMON);
+    nih_log_set_logger (nih_logger_syslog);
+  }
 }

 /* Handle TERM and INT signals gracefully */
--- upstart-1.13.2.orig/init/Makefile.am
+++ upstart-1.13.2/init/Makefile.am
@@ -8,6 +8,7 @@
 $(NIH_CFLAGS) \
 $(NIH_DBUS_CFLAGS) \
 $(DBUS_CFLAGS) \
+ $(SELINUX_CFLAGS) \
 $(JSON_CFLAGS) \
 $(CGMANAGER_CFLAGS)
AM_LIBADD = $(CGMANAGER_LIBS) $(NIH_LIBS) $(NIH_DBUS_LIBS)
@@ -73,6 +74,7 @@
 $(NIH_LIBS) \
 $(NIH_DBUS_LIBS) \
 $(DBUS_LIBS) \
+ $(SELINUX_LIBS) \
 $(JSON_LIBS) \
 $(CGMANAGER_LIBS) \
 -lrt
@@ -204,6 +206,7 @@

test_conf_preload.sh$(EXEEXT): tests/test_conf_preload.sh.in Makefile test_conf
 sed -e 's|[@]abs_builddir[@]|$(abs_builddir)|g' \
+     -e 's|[@]top_builddir[@]|$(top_builddir)|g'
 \
     -e 's|[@]inotify_preload_library[@]|$(check_LTLIBRARIES)|g' \
     $< > $@
 chmod +x $@
--- upstart-1.13.2.orig/init/apparmor.c
+++ upstart-1.13.2/init/apparmor.c
@@ -111,6 +111,18 @@
  return FALSE;
```

```
 }

+ /* Do not load if running in a container.
+  * This is a distro-specific patch.
+  */
+ if (stat ("/run/container_type", &statbuf) == 0)
+  return FALSE;
+
+ /* Do not load if running in a Ubuntu live CD.
+  * This is a distro-specific patch.
+  */
+ if (stat ("/rofs/etc/apparmor.d", &statbuf) == 0)
+  return FALSE;
+
 return TRUE;
}

--- upstart-1.13.2.orig/init/job_process.c
+++ upstart-1.13.2/init/job_process.c
@@ -2,7 +2,7 @@
 *
 * job_process.c - job process handling
 *
- * Copyright © 2011 Canonical Ltd.
+ * Copyright  2011 Canonical Ltd.
 * Author: Scott James Remnant <scott@netsplit.com>.
 *
 * This program is free software; you can redistribute it and/or modify
@@ -1766,10 +1766,18 @@
  /* We should always fail the job if the security profile
   * failed to load
  */
+
+  /* Disabled for now to emulate current Ubuntu behaviour
+   * in /lib/init/apparmor-profile-load to work around bug
+   * LP: #1058356
+
  if (status) {
   failed = TRUE;
   stop = TRUE;
  }
+
+  */
+
  break;
 case PROCESS_PRE_START:
  nih_assert (job->state == JOB_PRE_START);
--- upstart-1.13.2.orig/init/man/init.5
```

```
+++ upstart-1.13.2/init/man/init.5
@@ -1420,4 +1420,5 @@
.BR initctl (8),
.BR prctl (2),
.BR pty (7),
-.BR sh (1).
+.BR sh (1),
+.BR upstart-events (7).
--- upstart-1.13.2.orig/init/tests/test_conf_preload.sh.in
+++ upstart-1.13.2/init/tests/test_conf_preload.sh.in
@@ -33,6 +33,9 @@

build_dir="@abs_builddir@"
test_path="$build_dir/$test_name"
+libtool="@top_builddir@/libtool"
+
+[ -e "$libtool" ] || die "cannot find generated libtool binary"

preload_library="$build_dir/@inotify_preload_library@"

@@ -44,7 +47,7 @@
# Install the preload library to a temporary location since we need the
# full path to the shared library
 for LD_PRELOAD.
install_dir=$(mktemp -d --tmpdir="$builddir")
-libtool --mode=install install \
+"$libtool" --mode=install install \
    "$preload_library" "$install_dir" >/dev/null 2>&1

installed_lib=$(basename "$preload_library")
@@ -60,5 +63,5 @@
LD_PRELOAD=$installed_so $test_path

# clean up
-libtool --mode=uninstall \
+"$libtool" --mode=uninstall \
    rm "$install_dir/$installed_lib" >/dev/null 2>&1
--- upstart-1.13.2.orig/init/tests/test_job_process.c
+++ upstart-1.13.2/init/tests/test_job_process.c
@@ -8231,6 +8231,7 @@
 class->expect = EXPECT_STOP;

 TEST_ALLOC_FAIL {
+  pid_t tmp_pid;
   TEST_ALLOC_SAFE {
    job = job_new (class, "");

@@ -8244,7 +8245,10 @@
```

```
  exit (0);
 }

-  assert0 (waitid (P_PID, pid, &info, WSTOPPED | WNOWAIT));
+  tmp_pid = waitid (P_PID, pid, &info, WSTOPPED | WNOWAIT);
+  if (tmp_pid < 0)
+   printf("waitid failed: %m");
+  assert0 (tmp_pid);

  job->goal = JOB_START;
  job->state = JOB_SPAWNED;
--- upstart-1.13.2.orig/util/telinit.c
+++
 upstart-1.13.2/util/telinit.c
@@ -160,27 +160,73 @@
int
restart_upstart (void)
{
- nih_local NihDBusProxy *upstart = NULL;
- DBusPendingCall        *ret;
+ nih_local NihDBusProxy  *upstart = NULL;
+ NihError                *err;
+ int                     ret;

 upstart = upstart_open (NULL);
 if (! upstart)
  return -1;

- /* Fire and forget:
+ /* Ask Upstart to restart itself.
  *
-  * Ask Upstart to restart itself using the async interface to
-  * avoid the client-side complaining if and when it detects that
-  * Upstart has severed all connections to perform the re-exec.
+  * Since it is not possible to serialise a D-Bus connection,
+  * Upstart is forced to sever all D-Bus client connections,
+  * including this one.
+  *
+  * Further, since the user expects telinit to block _until the
+  * re-exec has finished and Upstart is accepting connections
+  * once again_, the only solution is to wait for the forced
+  * disconnect, then poll until it is possible to
 create a new
+  * connection.
+  *
+  * Note that we don't (can't) care about the return code since
+  * it's not reliable:
+  *
```

```
+  * - either the re-exec request completed and D-Bus returned zero
+  *   before Upstart started the re-exec.
+  *
+  * - or the re-exec request completed but upstart started the
+  *   re-exec (severing all D-Bus connections) before D-Bus got a
+  *   chance to finish cleanly meaning we receive a return of -1.
+  *
+  * We cannot know exactly what happened so have to allow for
+  * both scenarios. Note the implicit assumption that the re-exec
+  * request itself was accepted. If this assumption is incorrect
+  * (should not be possible), the worst case scenario is that
+  * upstart does not re-exec and then we quickly drop out of the
+  * reconnect block since it never went offline.
   */
- ret = upstart_restart (upstart, NULL, NULL, NULL, 0);
- dbus_connection_flush(upstart->connection);
+ ret = upstart_restart_sync (NULL, upstart);
+
+ if (ret < 0) {
+  err
  = nih_error_get ();
+  nih_free (err);
+ }

- /* We don't care about the return code, but we have to keep
-  * the compiler happy.
+ nih_free (upstart);
+
+ nih_debug ("Waiting for upstart to finish re-exec");
+
+ /* We believe Upstart is now in the process of
+  * re-exec'ing so attempt forever to reconnect.
+  *
+  * This sounds dangerous but there is no other option,
+  * and a connection must be possible unless the system
+  * is completely broken.
   */
- if (ret != (DBusPendingCall *)TRUE)
-  return 0;
+ while (TRUE) {
+
+  upstart = upstart_open (NULL);
+  if (upstart)
+   break;
+
+  err = nih_error_get ();
+  nih_free (err);
+
```

```
+  /* Avoid DoS'ing the system whilst we wait */
+  usleep (100000);
+ }

 return 0;
}
```

Found in path(s):
* /upstart-1-13-2-0ubuntu13-diff-1-gz/upstart_1.13.2-0ubuntu13.diff-1

1.372 libidn 2.0.5-1+deb10u1

1.372.1 Available under license :

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1.375 sed 4.7-1

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1.376 libgpg-error 1.35-1

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1.379 libffi 3.2.1-9

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1.380 xz 5.2.4-1

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1.382 dash 0.5.10.2-5

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1.383 findutils 4.6.0+git+20190209-2

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Debian maintainer history: The original package was put together by Ian Murdock <imurdock@debian.org>, afterwards Kevin Dalley <kevind@rahul.net> took over. 2003-07 Andreas Metzler <ametzler@debian.org> followed.

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* GNU locate and its associated utilities were originally
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1.386 json-java 20131018

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* /json-20131018-sources-jar/org/json/CookieList.java

* /json-20131018-sources-jar/org/json/XML.java
* /json-20131018-sources-jar/org/json/CDL.java
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* /json-20131018-sources-jar/org/json/zip/JSONzip.java
* /json-20131018-sources-jar/org/json/zip/Compressor.java
* /json-20131018-sources-jar/org/json/zip/BitOutputStream.java
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1.387 libsemanage-common 2.8-2

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1.388 sysv-init 2.86-1

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1.389 sysv-init 2.88

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Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

* A rewrite
 of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
*
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.390 sysklogd 1.5.0

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1.391 p4lang-p4runtime 1.4.0-rc.5

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1.394 systemtap 2.5

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1.395 erlang-otp 20.3.8.25

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Written by: Philip Hazel
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Written by: Philip Hazel
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```

[zlib]

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

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

[dialyzer]

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[edoc, syntax_tools]

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1.396 selinux 3.0

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1987 James A. Woods ames!jaw
1993 Christopher Seiwald seiwald@vix.com
2000, 2002 Christopher Seiwald <seiwald@perforce.com>
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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
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on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

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

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

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

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

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it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work

under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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

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

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

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

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

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

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

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

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* /slf4j-log4j12-1-7-5-sources-jar-zip/slf4j-log4j12-1-7-5-sources-jar/org/slf4j/impl/StaticLoggerBinder.java
* /slf4j-log4j12-1-7-5-sources-jar-zip/slf4j-log4j12-1-7-5-sources-jar/org/slf4j/impl/Log4jLoggerAdapter.java
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1.412 lvm2 1.02.76

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1.413 libksba 1.5.0

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1.417 openconfig-gnsi 1.2.1

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1.418 shim 0.3

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1.422 usbutils 0.13.111

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bzip2/libbzip2 version 1.0.4 of 20 December 2006
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1.431 openconfig-gnmi 0.10.0

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1.432 openssl 1.1.1w

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1.437 e2fsprogs 1.43

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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

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
This package, the EXT2 filesystem utilities, are made available under
the GNU Public License version 2, with the exception of the lib/ext2fs
```

and lib/e2p libraries, which are made available under the GNU Library
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    Theodore Ts'o
    23-June-2007

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That's all there is to it!
This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

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

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system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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

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1.438 tftp-hpa 5.2

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*/

Found
 in path(s):
* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/tftpd.c
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```
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Found in path(s):
* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp/tftp.c
*
 /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp/main.c
* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/common/tftpsubs.c
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```

```
*
* ---------------------------------------------------------------------- */
```

Found in path(s):
* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/remap.h
* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/misc.c
* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/remap.c
No license file was found, but licenses were detected in source scan.

Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: 5.2
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

%description
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp package provides the user
interface for TFTP, which allows users to transfer files to and from a
remote machine. This program and TFTP provide very little security,
and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp-server package provides
 the
server for TFTP, which allows users to transfer files to and from a
remote machine. TFTP provides very little security, and should not be
enabled unless it is expressly needed. The TFTP server is run from
/etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

```
%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
   SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
 install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
   /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files
 server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
```

- 0.33
- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
- Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
- Fix #55789
- Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
- Try applying HJ's patch from #65476

* Fri Jun
 21 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
- Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
- Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
- Update to tftp-hpa-0.28 (bug #56131)
- Remove include/arpa/tftp.h to fix #57259
- Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
- Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
- updated tftp-hpa source to tftp-hpa-0.17
- tweaked specfile with different defines for tftp-netkit and tftp-hpa version
- use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
- rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
- fix tftp client's put problems (#29529)
- update
 to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-l" flag to hpa-tftpd for file-logging (#26467)
- added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody
 is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug 23 2000
 Nalin Dahyabhai <nalin@redhat.com>
- default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
- update to tftp-hpa-0.14 (#14003).
- add server_args (#14003).
- remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
- cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17.

* Fri May 5 2000 Matt Wilson <msw@redhat.com>
- use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
- fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
- compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
- man pages are compressed
- fix description and summary

* Tue
Jan 4 2000 Bill Nottingham <notting@redhat.com>
- split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
- tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
- compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

Found in path(s):
* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp.spec
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*
* --- */

Found in path(s):
* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/config.h
No license file was found, but licenses were detected in source scan.

Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: @@VERSION@@
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

%description
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp package provides the user
interface for TFTP, which allows users to transfer files to and from a
remote machine. This program and TFTP provide very little security,
and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp-server package

```
 provides the
server for TFTP, which allows users to transfer files to and from a
remote machine. TFTP provides very little security, and should not be
enabled unless it is expressly needed.  The TFTP server is run from
/etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
   SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
 install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
   /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files
 server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
```

%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
- Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
- Fix #55789
- Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
- Try applying HJ's patch from #65476

*
Fri Jun 21 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
- Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
- Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
- Update to tftp-hpa-0.28 (bug #56131)
- Remove include/arpa/tftp.h to fix #57259
- Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
- Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
- updated tftp-hpa source to tftp-hpa-0.17
- tweaked specfile with different defines for tftp-netkit and tftp-hpa version
- use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
- rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
- fix tftp client's put problems (#29529)
-
update to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-l" flag to hpa-tftpd for file-logging (#26467)
- added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody
is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug
23 2000 Nalin Dahyabhai <nalin@redhat.com>
- default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
- update to tftp-hpa-0.14 (#14003).
- add server_args (#14003).
- remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
- cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17.

* Fri May 5 2000 Matt Wilson <msw@redhat.com>
- use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
- fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
- compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
- man pages are compressed
- fix description and summary

*
 Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
- split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
- tftpd should truncate file when overwriting (#412)

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* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

Found in path(s):
* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp.spec.in
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* -- */

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* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/tftpd.h
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* -- */

Found in path(s):
* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/recvfrom.c

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/recvfrom.h
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Found in path(s):
* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/tftpd.8.in
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Found in path(s):
* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp/tftp.1.in
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Found in path(s):
* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/MCONFIG.in
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*/

Found in path(s):
* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/common/tftpsubs.h
*
 /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp/extern.h

1.439 dnsmasq 2.83

1.439.1 Available under license :

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when it starts in an interactive mode:

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The hypothetical commands
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<signature of Ty Coon>, 1 April 1989
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Version 3, 29 June 2007

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1.440 busybox 1.22.1

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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- javaee_web_services_1_2.xsd
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- javaee_6.xsd
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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
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- web-app_3_0.xsd
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* org.eclipse.jetty.orbit:javax.mail.glassfish

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

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module is selected.

* java.sun.security.ssl

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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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

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

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org.eclipse.jetty.toolchain:jetty-schemas

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1.445 grpc-go 1.56.3

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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
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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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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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1.448 python 3.7.4

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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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6 12544 16127 3584 1.8M

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```
#!/usr/bin/env bash
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
# This script will read the license file into memory, strip out the copyright, and then
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e

calculate_md5_sum() {
 local FILE="$1"

 # Read the contents of the file into a variable
 local raw_license_text=$(<"$FILE")

 # Convert to lowercase
 local lowercase_license_text="${raw_license_text,,}"

 # Remove anything before the beginning of the license
 local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")

 # Replace line breaks (Windows or Linux) with a single space
 local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")

 # Replace multiple spaces with a single space
 local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

 # Strip away any non-printable, non-whitespace characters
 local clean_unprintable_license_text=$(tr
 -cd '[:print:][:space:]' <<< "$normalized_license_text")

 # Remove punctuation and special characters
 local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

 # Calculate the MD5 sum of the cleaned license text
 local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')

 # Output the MD5 sum
 echo "$MD5SUM"
```

```
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
 echo "Please provide a FILE as an argument."
 exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
WEV @@ WEV[B  "1
x   ?"U@,5  @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV   @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B  "1
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```

1.451 python 2.7.16

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

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see

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

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

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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#
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Licensing and contribution policy of dtc and libfdt
==========

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two pieces of software, although closely related, are quite distinct.
dtc does not incoporate or rely on libfdt for its operation, nor vice
versa. It is important that these two pieces of software have
different license conditions.

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under the GNU GPL. The full text of the GPL can be found in the file
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I made the decision to license libfdt in this way because I want to
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including by proprietary or otherwise GPL-incompatible firmware or
tools. Allowing libfdt to be used under the terms of the BSD license
makes that it easier for vendors or authors of such software to do so.

This does mean that libfdt code could be "stolen" - say, included in a
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back to the libfdt mainline. While I hope that doesn't happen, I
believe the goal of allowing libfdt to be widely used is more
important than avoiding that. libfdt is quite small, and hardly
rocket science; so the incentive for such impolite behaviour is small,
and the inconvenience caused therby is not dire.

Licenses such as the
 LGPL which would allow code to be used in non-GPL
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other environments with unusual technical constraints. It's difficult
to anticipate all possible changes which might be needed to meld
libfdt into such environments and so difficult to suitably word a
license that puts the boundary between what is and isn't permitted in
the intended place. Again, I judged encouraging widespread use of
libfdt by keeping the license terms simple and familiar to be the more
important goal.

IMPORTANT It's intended that all of libfdt as released remain
permissively licensed this way. Therefore only contributions which
are released under these terms can be merged into the libfdt mainline.

David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
2 November 2007
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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>.

The argparse module was contributed to Python as of Python 2.7 and thus
was licensed under the Python license. Same license applies to all files in
the argparse package project.

For details about the Python License, please see doc/Python-License.txt.

History

Before (and including) argparse 1.1, the argparse package was licensed under
Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted
due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from
Python 2.7.1, so definitely all files are under Python License now.
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various firmware files. These are separate programs that are
distributed together for our users' convenience, and they have
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The following points clarify the license of the QEMU emulator:

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GPL License Exception:

Even though U-Boot in general is covered by the GPL-2.0/GPL-2.0+,
this does *not* cover the so-called "standalone" applications that
use U-Boot services by means of the jump table provided by U-Boot
exactly for this purpose - this is merely considered normal use of
U-Boot, and does *not* fall under the heading of "derived work".

The header files "include/image.h" and "arch/*/include/asm/u-boot.h"
define interfaces to U-Boot. Including these (unmodified) header
files in another file is considered normal use of U-Boot, and does
not fall under the heading of "derived work".
-- Wolfgang Denk

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and the XFree86 license, the original authors of the code
decided to allow a license change. If you have submitted
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Key Dates

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* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0
to Version 1.1 to cover open source documentation associated
with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a
backwards compatible extension that adds support for document
files in both source form and compiled form.

References:

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Proposals (RFCs):
https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

TianoCore Bugzilla:
https://bugzilla.tianocore.org/show_bug.cgi?id=629

* April 9, 2019

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https://lists.01.org/pipermail/edk2-devel/2019-February/036260.html
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```
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= Code Contributions =
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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.
* "Signed-off-by" is the contributor's signature identifying them
  by their real/legal name and their email address.

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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
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For example: Contributed-under: TianoCore Contribution Agreement 1.0
The "TianoCore Contribution Agreement" is included below in
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```
=====================================================
= Change Description / Commit Message / Patch Email =
=====================================================
```

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under:
TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [PATCH]. The remaining portion of the commit message
  is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short idenfier for the affected code. For
  example MdePkg, or MdeModulePkg UsbBusDxe.

* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
the change.
Each line should be less than ~70 characters.
* "Contributed-under" explicitely states that the contribution is
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License-History.txt

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Key Dates

---

* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0
to Version 1.1 to cover open source documentation associated
with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a
backwards compatible extension that adds support for document
files in both source form and compiled form.

References:

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Proposals (RFCs):

https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

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* April 9, 2019

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2. Your commit message must include your "Signed-off-by" signature,
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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 1.1
The "TianoCore Contribution Agreement" is included below in
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4. Submit your code to the TianoCore project using the process
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==========

= Change Description / Commit Message / Patch Email =
==========

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [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
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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 1.0
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
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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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SoftFloat Release 3e

John R. Hauser
2018 January 20

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{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(\"%s\",%#o)", NULL, NULL },
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{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
```

{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)",
NULL, NULL },
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John R. Hauser
2018 January 20

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1.453 vim 6.1

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* CSCOPE support for Vim added by Andy Kahn <kahn@zk3.dec.com>

*
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1.454 socat 1.7.2.4

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==
Building and Distributing Packages with Setuptools
==

``Setuptools`` is a collection of enhancements to the Python ``distutils``
(for Python 2.6 and up) that allow developers to more easily build and
distribute Python packages, especially ones that have dependencies on other
packages.

Packages built and distributed using ``setuptools`` look to the user like
ordinary Python packages based on the ``distutils``. Your users don't need to
install or even know about setuptools in order to use them, and you don't
have to include the entire setuptools package in your distributions. By
including just a single `bootstrap module`_ (a 12K .py file), your package will
automatically download and install ``setuptools`` if the user is building your
package from source and doesn't have a suitable version already installed.

.. _bootstrap
 module: https://bootstrap.pypa.io/ez_setup.py

Feature Highlights:

* Automatically find/download/install/upgrade dependencies at build time using
 the `EasyInstall tool <easy_install.html>`_,
 which supports downloading via HTTP, FTP, Subversion, and SourceForge, and
 automatically scans web pages linked from PyPI to find download links. (It's
 the closest thing to CPAN currently available for Python.)

* Create `Python Eggs <http://peak.telecommunity.com/DevCenter/PythonEggs>`_ -
 a single-file importable distribution format

* Enhanced support for accessing data files hosted in zipped packages.

* Automatically include all packages in your source tree, without listing them
 individually in setup.py

* Automatically include all relevant files in your source distributions,
 without needing to create a ``MANIFEST.in`` file, and without having to force
 regeneration of the ``MANIFEST`` file when your source tree changes.

* Automatically generate wrapper scripts or Windows

(console and GUI) .exe
files for any number of "main" functions in your project. (Note: this is not
a py2exe replacement; the .exe files rely on the local Python installation.)

* Transparent Pyrex support, so that your setup.py can list ``.pyx`` files and
still work even when the end-user doesn't have Pyrex installed (as long as
you include the Pyrex-generated C in your source distribution)

* Command aliases - create project-specific, per-user, or site-wide shortcut
names for commonly used commands and options

* PyPI upload support - upload your source distributions and eggs to PyPI

* Deploy your project in "development mode", such that it's available on
``sys.path``, yet can still be edited directly from its source checkout.

* Easily extend the distutils with new commands or ``setup()`` arguments, and
distribute/reuse your extensions for multiple projects, without copying code.

* Create extensible applications and frameworks that automatically discover
extensions,
using simple "entry points" declared in a project's setup script.

In addition to the PyPI downloads, the development version of ``setuptools``
is available from the `Python SVN sandbox`_, and in-development versions of the
`0.6 branch`_ are available as well.

.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

.. _Python SVN sandbox: http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev

.. contents:: **Table of Contents**

.. _ez_setup.py: `bootstrap module`_

Developer's Guide

Installing ``setuptools``
==========

Please follow the `EasyInstall Installation Instructions`_ to install the
current stable version of setuptools. In particular, be sure to read the
section on `Custom Installation Locations`_ if you are installing anywhere
other than Python's ``site-packages`` directory.

.. _EasyInstall Installation Instructions: easy_install.html#installation-instructions

..
 _Custom Installation Locations: easy_install.html#custom-installation-locations

If you want the current in-development version of setuptools, you should first
install a stable version, and then run::

  ez_setup.py setuptools==dev

This will download and install the latest development (i.e. unstable) version
of setuptools from the Python Subversion sandbox.

Basic Use
=========

For basic use of setuptools, just import things from setuptools instead of
the distutils. Here's a minimal setup script using setuptools::

  from setuptools import setup, find_packages
  setup(
      name = "HelloWorld",
      version = "0.1",
      packages = find_packages(),
)

As you can see, it doesn't take much to use setuptools in a project.
Run that script in your project folder, alongside the Python packages
you have developed.

Invoke that script to produce eggs, upload to
PyPI, and automatically include all packages in the directory where the
setup.py lives. See
 the `Command Reference`_ section below to see what
commands you can give to this setup script. For example,
to produce a source distribution, simply invoke::

  python setup.py sdist

Of course, before you release your project to PyPI, you'll want to add a bit
more information to your setup script to help people find or learn about your
project. And maybe your project will have grown by then to include a few
dependencies, and perhaps some data files and scripts::

  from setuptools import setup, find_packages
  setup(

```
    name = "HelloWorld",
    version = "0.1",
    packages = find_packages(),
    scripts = ['say_hello.py'],

    # Project uses reStructuredText, so ensure that the docutils get
    # installed or upgraded on the target machine
    install_requires = ['docutils>=0.3'],

    package_data = {
       # If any package contains *.txt or *.rst files, include them:
       '': ['*.txt', '*.rst'],
       # And include any *.msg
files found in the 'hello' package, too:
       'hello': ['*.msg'],
    },

    # metadata for upload to PyPI
    author = "Me",
    author_email = "me@example.com",
    description = "This is an Example Package",
    license = "PSF",
    keywords = "hello world example examples",
    url = "http://example.com/HelloWorld/",   # project home page, if any

    # could also include long_description, download_url, classifiers, etc.
  )
```

In the sections that follow, we'll explain what most of these ``setup()``
arguments do (except for the metadata ones), and the various ways you might use
them in your own project(s).

Specifying Your Project's Version

Setuptools can work well with most versioning schemes; there are, however, a
few special things to watch out for, in order to ensure that setuptools and
EasyInstall can always tell what version of your package is newer than another
version. Knowing these things
 will also help you correctly specify what
versions of other projects your project depends on.

A version consists of an alternating series of release numbers and pre-release
or post-release tags. A release number is a series of digits punctuated by
dots, such as ``2.4`` or ``0.5``. Each series of digits is treated
numerically, so releases ``2.1`` and ``2.1.0`` are different ways to spell the
same release number, denoting the first subrelease of release 2. But ``2.10``

is the *tenth* subrelease of release 2, and so is a different and newer release from ``2.1`` or ``2.1.0``. Leading zeros within a series of digits are also ignored, so ``2.01`` is the same as ``2.1``, and different from ``2.0.1``.

Following a release number, you can have either a pre-release or post-release tag. Pre-release tags make a version be considered *older* than the version they are appended to. So, revision ``2.4`` is *newer* than revision ``2.4c1``, which in turn is newer than ``2.4b1`` or ``2.4a1``. Postrelease tags make a version be considered *newer* than the version they are appended to. So, revisions like ``2.4-1`` and ``2.4pl3`` are newer than ``2.4``, but are *older* than ``2.4.1`` (which has a higher release number).

A pre-release tag is a series of letters that are alphabetically before "final". Some examples of prerelease tags would include ``alpha``, ``beta``, ``a``, ``c``, ``dev``, and so on. You do not have to place a dot or dash before the prerelease tag if it's immediately after a number, but it's okay to do so if you prefer. Thus, ``2.4c1`` and ``2.4.c1`` and ``2.4-c1`` all represent release candidate 1 of version ``2.4``, and are treated as identical by setuptools.

In addition, there are three special prerelease tags that are treated as if they were the letter ``c``: ``pre``, ``preview``, and ``rc``. So, version ``2.4rc1``, ``2.4pre1`` and ``2.4preview1`` are all the exact same version as ``2.4c1``, and are treated as identical by setuptools.

A post-release tag is either a series of letters that are alphabetically greater than or equal to "final", or a dash (``-``). Post-release tags are generally used to separate patch numbers, port numbers, build numbers, revision numbers, or date stamps from the release number. For example, the version ``2.4-r1263`` might denote Subversion revision 1263 of a post-release patch of version ``2.4``. Or you might use ``2.4-20051127`` to denote a date-stamped post-release.

Notice that after each pre or post-release tag, you are free to place another release number, followed again by more pre- or post-release tags. For example, ``0.6a9.dev-r41475`` could denote Subversion revision 41475 of the in-development version of the ninth alpha of release 0.6. Notice that ``dev`` is a pre-release tag, so this version is a *lower* version number than ``0.6a9``, which would be the actual ninth alpha of release 0.6. But the ``-r41475`` is a post-release tag, so this version is *newer* than ``0.6a9.dev``.

For the most part, setuptools' interpretation of version numbers is intuitive, but here are a few tips that will keep you out of trouble in the corner cases:

* Don't stick adjoining pre-release tags together without a dot or number

between them. Version ``1.9adev`` is the ``adev`` prerelease of ``1.9``, *not* a development pre-release of ``1.9a``. Use ``.dev`` instead, as in ``1.9a.dev``, or separate the prerelease tags with a number, as in ``1.9a0dev``. ``1.9a.dev``, ``1.9a0dev``, and even ``1.9.a.dev`` are identical versions from setuptools' point of view, so you can use whatever scheme you prefer.

* If you want to be certain that your chosen numbering scheme works the way you think it will, you can use the ``pkg_resources.parse_version()`` function to compare different version numbers::

  >>> from pkg_resources import parse_version
  >>> parse_version('1.9.a.dev') == parse_version('1.9a0dev')
  True
  >>> parse_version('2.1-rc2') < parse_version('2.1')
  True
   >>> parse_version('0.6a9dev-r41475') < parse_version('0.6a9')
  True

Once you've decided on a version numbering scheme for your project, you can have setuptools automatically tag your in-development releases with various pre- or post-release tags. See the following sections for more details:

* `Tagging and "Daily Build" or "Snapshot" Releases`_
* `Managing "Continuous Releases" Using Subversion`_
* The `egg_info`_ command

New and Changed ``setup()`` Keywords
====================================

The following keyword arguments to ``setup()`` are added or changed by ``setuptools``. All of them are optional; you do not have to supply them unless you need the associated ``setuptools`` feature.

``include_package_data``
  If set to ``True``, this tells ``setuptools`` to automatically include any data files it finds inside your package directories that are specified by your ``MANIFEST.in`` file. For more information, see the section below on `Including Data Files`_.

``exclude_package_data``
   A dictionary mapping package names to lists of glob patterns that should be *excluded* from your package directories. You can use this to trim back any excess files included by ``include_package_data``. For a complete description and examples, see the section below on `Including Data Files`_.

``package_data``

A dictionary mapping package names to lists of glob patterns. For a complete description and examples, see the section below on `Including Data Files`_. You do not need to use this option if you are using ``include_package_data``, unless you need to add e.g. files that are generated by your setup script and build process. (And are therefore not in source control or are files that you don't want to include in your source distribution.)

``zip_safe``
A boolean (True or False) flag specifying whether the project can be safely installed and run from a zip file. If this argument is not supplied,
the ``bdist_egg`` command will have to analyze all of your project's contents for possible problems each time it builds an egg.

``install_requires``
A string or list of strings specifying what other distributions need to be installed when this one is. See the section below on `Declaring Dependencies`_ for details and examples of the format of this argument.

``entry_points``
A dictionary mapping entry point group names to strings or lists of strings defining the entry points. Entry points are used to support dynamic discovery of services or plugins provided by a project. See `Dynamic Discovery of Services and Plugins`_ for details and examples of the format of this argument. In addition, this keyword is used to support `Automatic Script Creation`_.

``extras_require``
A dictionary mapping names of "extras" (optional features of your project) to strings or lists of strings specifying what other distributions must be installed to
support those features. See the section below on `Declaring Dependencies`_ for details and examples of the format of this argument.

``setup_requires``
A string or list of strings specifying what other distributions need to be present in order for the *setup script* to run. ``setuptools`` will attempt to obtain these (even going so far as to download them using ``EasyInstall``) before processing the rest of the setup script or commands. This argument is needed if you are using distutils extensions as part of your build process; for example, extensions that process setup() arguments and turn them into EGG-INFO metadata files.

(Note: projects listed in ``setup_requires`` will NOT be automatically installed on the system where the setup script is being run. They are simply downloaded to the ./.eggs directory if they're not locally available already. If you want them to be installed, as well as being available

when the setup script
is run, you should add them to ``install_requires``
and ``setup_requires``.)

``dependency_links``
A list of strings naming URLs to be searched when satisfying dependencies.
These links will be used if needed to install packages specified by
``setup_requires`` or ``tests_require``. They will also be written into
the egg's metadata for use by tools like EasyInstall to use when installing
an ``.egg`` file.

``namespace_packages``
A list of strings naming the project's "namespace packages". A namespace
package is a package that may be split across multiple project
distributions. For example, Zope 3's ``zope`` package is a namespace
package, because subpackages like ``zope.interface`` and ``zope.publisher``
may be distributed separately. The egg runtime system can automatically
merge such subpackages into a single parent package at runtime, as long
as you declare them in each project that contains any subpackages of the
namespace
package, and as long as the namespace package's ``__init__.py``
does not contain any code other than a namespace declaration. See the
section below on `Namespace Packages`_ for more information.

``test_suite``
A string naming a ``unittest.TestCase`` subclass (or a package or module
containing one or more of them, or a method of such a subclass), or naming
a function that can be called with no arguments and returns a
``unittest.TestSuite``. If the named suite is a module, and the module
has an ``additional_tests()`` function, it is called and the results are
added to the tests to be run. If the named suite is a package, any
submodules and subpackages are recursively added to the overall test suite.

Specifying this argument enables use of the `test`_ command to run the
specified test suite, e.g. via ``setup.py test``. See the section on the
`test`_ command below for more details.

``tests_require``
If your project's tests need
one or more additional packages besides those
needed to install it, you can use this option to specify them. It should
be a string or list of strings specifying what other distributions need to
be present for the package's tests to run. When you run the ``test``
command, ``setuptools`` will attempt to obtain these (even going
so far as to download them using ``EasyInstall``). Note that these
required projects will *not* be installed on the system where the tests
are run, but only downloaded to the project's setup directory if they're
not already installed locally.

.. _test_loader:

``test_loader``
  If you would like to use a different way of finding tests to run than what
  setuptools normally uses, you can specify a module name and class name in
  this argument. The named class must be instantiable with no arguments, and
  its instances must support the ``loadTestsFromNames()`` method as defined
  in the Python ``unittest`` module's ``TestLoader``
 class. Setuptools will
  pass only one test "name" in the `names` argument: the value supplied for
  the ``test_suite`` argument. The loader you specify may interpret this
  string in any way it likes, as there are no restrictions on what may be
  contained in a ``test_suite`` string.

  The module name and class name must be separated by a ``:``. The default
  value of this argument is ``"setuptools.command.test:ScanningLoader"``. If
  you want to use the default ``unittest`` behavior, you can specify
  ``"unittest:TestLoader"`` as your ``test_loader`` argument instead. This
  will prevent automatic scanning of submodules and subpackages.

  The module and class you specify here may be contained in another package,
  as long as you use the ``tests_require`` option to ensure that the package
  containing the loader class is available when the ``test`` command is run.

``eager_resources``
  A list of strings naming resources that should be extracted
 together, if
  any of them is needed, or if any C extensions included in the project are
  imported. This argument is only useful if the project will be installed as
  a zipfile, and there is a need to have all of the listed resources be
  extracted to the filesystem *as a unit*. Resources listed here
  should be '/'-separated paths, relative to the source root, so to list a
  resource ``foo.png`` in package ``bar.baz``, you would include the string
  ``bar/baz/foo.png`` in this argument.

  If you only need to obtain resources one at a time, or you don't have any C
  extensions that access other files in the project (such as data files or
  shared libraries), you probably do NOT need this argument and shouldn't
  mess with it. For more details on how this argument works, see the section
  below on `Automatic Resource Extraction`_.

``use_2to3``
  Convert the source code from Python 2 to Python 3 with 2to3 during the
  build process. See :doc:`python3`
 for more details.

``convert_2to3_doctests``

List of doctest source files that need to be converted with 2to3.
See :doc:`python3` for more details.

``use_2to3_fixers``
A list of modules to search for additional fixers to be used during
the 2to3 conversion. See :doc:`python3` for more details.

Using ``find_packages()``

For simple projects, it's usually easy enough to manually add packages to the ``packages`` argument of ``setup()``. However, for very large projects (Twisted, PEAK, Zope, Chandler, etc.), it can be a big burden to keep the package list updated. That's what ``setuptools.find_packages()`` is for.

``find_packages()`` takes a source directory and two lists of package name patterns to exclude and include. If omitted, the source directory defaults to the same
directory as the setup script. Some projects use a ``src`` or ``lib`` directory as the root of their source tree, and those projects would of course use ``"src"`` or
``"lib"`` as the first argument to ``find_packages()``. (And such projects also need something like ``package_dir = {'':'src'}`` in their ``setup()`` arguments, but that's just a normal distutils thing.)

Anyway, ``find_packages()`` walks the target directory, filtering by inclusion patterns, and finds Python packages (any directory). On Python 3.2 and earlier, packages are only recognized if they include an ``__init__.py`` file. Finally, exclusion patterns are applied to remove matching packages.

Inclusion and exclusion patterns are package names, optionally including wildcards. For
example, ``find_packages(exclude=["*.tests"])`` will exclude all packages whose last name part is ``tests``. Or, ``find_packages(exclude=["*.tests", "*.tests.*"])`` will also exclude any subpackages of packages named ``tests``, but it still won't exclude a top-level ``tests`` package or the children thereof. In fact, if you really want no ``tests`` packages at all, you'll need something like this::

```
find_packages(exclude=["*.tests", "*.tests.*", "tests.*", "tests"])
```

in order to cover all the bases. Really, the exclusion patterns are intended to cover simpler use cases than this, like excluding a single, specified package and its subpackages.

Regardless of the parameters, the ``find_packages()`` function returns a list of package names suitable for use as the ``packages``

argument to ``setup()``, and so is usually the easiest way to set that
argument in your setup script. Especially since it frees you from having to
remember to modify your setup script whenever your project grows additional
top-level packages or subpackages.

Automatic Script Creation
=========================

Packaging and installing scripts can be a bit awkward with the distutils. For
one thing, there's no easy way to have a script's filename match local
conventions on both Windows and POSIX platforms. For another, you often have
to create a separate file just for the "main" script, when your actual
 "main"
is a function in a module somewhere. And even in Python 2.4, using the ``-m``
option only works for actual ``.py`` files that aren't installed in a package.

``setuptools`` fixes all of these problems by automatically generating scripts
for you with the correct extension, and on Windows it will even create an
``.exe`` file so that users don't have to change their ``PATHEXT`` settings.
The way to use this feature is to define "entry points" in your setup script
that indicate what function the generated script should import and run. For
example, to create two console scripts called ``foo`` and ``bar``, and a GUI
script called ``baz``, you might do something like this::

```
  setup(
     # other arguments here...
     entry_points={
        'console_scripts': [
           'foo = my_package.some_module:main_func',
           'bar = other_module:some_func',
        ],
        'gui_scripts': [
           'baz = my_package_gui:start_func',

 ]
     }
  )
```

When this project is installed on non-Windows platforms (using "setup.py
install", "setup.py develop", or by using EasyInstall), a set of ``foo``,
``bar``, and ``baz`` scripts will be installed that import ``main_func`` and
``some_func`` from the specified modules. The functions you specify are called
with no arguments, and their return value is passed to ``sys.exit()``, so you
can return an errorlevel or message to print to stderr.

On Windows, a set of ``foo.exe``, ``bar.exe``, and ``baz.exe`` launchers are
created, alongside a set of ``foo.py``, ``bar.py``, and ``baz.pyw`` files. The

``.exe`` wrappers find and execute the right version of Python to run the
``.py`` or ``.pyw`` file.

You may define as many "console script" and "gui script" entry points as you
like, and each one can optionally specify "extras" that it depends on, that
will be added to ``sys.path`` when the script is run. For more information on
"extras", see the section below on `Declaring Extras`_.
 For more information
on "entry points" in general, see the section below on `Dynamic Discovery of
Services and Plugins`_.

"Eggsecutable" Scripts

Occasionally, there are situations where it's desirable to make an ``.egg``
file directly executable. You can do this by including an entry point such
as the following::

```
  setup(
     # other arguments here...
     entry_points = {
        'setuptools.installation': [
           'eggsecutable = my_package.some_module:main_func',
        ]
     }
  )
```

Any eggs built from the above setup script will include a short executable
prelude that imports and calls ``main_func()`` from ``my_package.some_module``.
The prelude can be run on Unix-like platforms (including Mac and Linux) by
invoking the egg with ``/bin/sh``, or by enabling execute permissions on the
``.egg`` file. For the executable prelude to run, the appropriate version of
Python must be available via the ``PATH`` environment variable,
 under its
"long" name. That is, if the egg is built for Python 2.3, there must be a
``python2.3`` executable present in a directory on ``PATH``.

This feature is primarily intended to support ez_setup the installation of
setuptools itself on non-Windows platforms, but may also be useful for other
projects as well.

IMPORTANT NOTE: Eggs with an "eggsecutable" header cannot be renamed, or
invoked via symlinks. They *must* be invoked using their original filename, in
order to ensure that, once running, ``pkg_resources`` will know what project
and version is in use. The header script will check this and exit with an
error if the ``.egg`` file has been renamed or is invoked via a symlink that
changes its base name.

Declaring Dependencies
======================

``setuptools`` supports automatically installing dependencies when a package is installed, and including information about dependencies in Python Eggs (so that package management tools like EasyInstall can use the information).

``setuptools``
 and ``pkg_resources`` use a common syntax for specifying a
project's required dependencies. This syntax consists of a project's PyPI name, optionally followed by a comma-separated list of "extras" in square brackets, optionally followed by a comma-separated list of version specifiers. A version specifier is one of the operators ``<``, ``>``, ``<=``, ``>=``, ``==`` or ``!=``, followed by a version identifier. Tokens may be separated by whitespace, but any whitespace or nonstandard characters within a project name or version identifier must be replaced with ``-``.

Version specifiers for a given project are internally sorted into ascending version order, and used to establish what ranges of versions are acceptable. Adjacent redundant conditions are also consolidated (e.g. ``">1, >2"`` becomes ``">1"``, and ``"<2,<3"`` becomes ``"<3"``). ``"!="`` versions are excised from the ranges they fall within. A project's version is then checked for membership in the resulting
 ranges. (Note that providing conflicting conditions
for the same version (e.g. "<2,>=2" or "==2,!=2") is meaningless and may therefore produce bizarre results.)

Here are some example requirement specifiers::

```
  docutils >= 0.3

  # comment lines and \ continuations are allowed in requirement strings
  BazSpam ==1.1, ==1.2, ==1.3, ==1.4, ==1.5, \
     ==1.6, ==1.7  # and so are line-end comments

  PEAK[FastCGI, reST]>=0.5a4

  setuptools==0.5a7
```

The simplest way to include requirement specifiers is to use the ``install_requires`` argument to ``setup()``. It takes a string or list of strings containing requirement specifiers. If you include more than one requirement in a string, each requirement must begin on a new line.

This has three effects:

1. When your project is installed, either by using EasyInstall, ``setup.py
  install``, or ``setup.py develop``, all of the dependencies not already
  installed will be located (via PyPI), downloaded, built (if necessary),
   and installed.

2. Any scripts in your project will be installed with wrappers that verify
  the availability of the specified dependencies at runtime, and ensure that
  the correct versions are added to ``sys.path`` (e.g. if multiple versions
  have been installed).

3. Python Egg distributions will include a metadata file listing the
  dependencies.

Note, by the way, that if you declare your dependencies in ``setup.py``, you do
not need to use the ``require()`` function in your scripts or modules, as
long as you either install the project or use ``setup.py develop`` to do
development work on it. (See `"Development Mode"`_ below for more details on
using ``setup.py develop``.)

Dependencies that aren't in PyPI

If your project depends on packages that aren't registered in PyPI, you may
still be able to depend on them, as long as they are available for download
as:

- an egg, in the standard distutils ``sdist`` format,
- a single ``.py`` file,
 or
- a VCS repository (Subversion, Mercurial, or Git).

You just need to add some URLs to the ``dependency_links`` argument to
``setup()``.

The URLs must be either:

1. direct download URLs,
2. the URLs of web pages that contain direct download links, or
3. the repository's URL

In general, it's better to link to web pages, because it is usually less
complex to update a web page than to release a new version of your project.
You can also use a SourceForge ``showfiles.php`` link in the case where a
package you depend on is distributed via SourceForge.

If you depend on a package that's distributed as a single ``.py`` file, you
must include an ```"#egg=project-version"`` suffix to the URL, to give a project

name and version number. (Be sure to escape any dashes in the name or version
by replacing them with underscores.) EasyInstall will recognize this suffix
and automatically create a trivial ``setup.py`` to wrap the single ``.py`` file
as an egg.

In the case of a VCS checkout, you
 should also append ``#egg=project-version``
in order to identify for what package that checkout should be used. You can
append ``@REV`` to the URL's path (before the fragment) to specify a revision.
Additionally, you can also force the VCS being used by prepending the URL with
a certain prefix. Currently available are:

- ``svn+URL`` for Subversion,
- ``git+URL`` for Git, and
- ``hg+URL`` for Mercurial

A more complete example would be:

  ``vcs+proto://host/path@revision#egg=project-version``

Be careful with the version. It should match the one inside the project files.
If you want to disregard the version, you have to omit it both in the
``requires`` and in the URL's fragment.

This will do a checkout (or a clone, in Git and Mercurial parlance) to a
temporary folder and run ``setup.py bdist_egg``.

The ``dependency_links`` option takes the form of a list of URL strings. For
example, the below will cause EasyInstall to search the specified page for
eggs or source distributions,
 if the package's dependencies aren't already
installed::

```
  setup(
     ...
     dependency_links = [
        "http://peak.telecommunity.com/snapshots/"
     ],
  )
```

.. _Declaring Extras:

Declaring "Extras" (optional features with their own dependencies)

Sometimes a project has "recommended" dependencies, that are not required for

all uses of the project. For example, a project might offer optional PDF output if ReportLab is installed, and reStructuredText support if docutils is installed. These optional features are called "extras", and setuptools allows you to define their requirements as well. In this way, other projects that require these optional features can force the additional requirements to be installed, by naming the desired extras in their ``install_requires``.

For example, let's say that Project A offers optional PDF and reST support::

```
  setup(
     name="Project-A",


   ...
     extras_require = {
        'PDF':  ["ReportLab>=1.2", "RXP"],
        'reST': ["docutils>=0.3"],
     }
  )
```

As you can see, the ``extras_require`` argument takes a dictionary mapping names of "extra" features, to strings or lists of strings describing those features' requirements. These requirements will *not* be automatically installed unless another package depends on them (directly or indirectly) by including the desired "extras" in square brackets after the associated project name. (Or if the extras were listed in a requirement spec on the EasyInstall command line.)

Extras can be used by a project's `entry points`_ to specify dynamic dependencies. For example, if Project A includes a "rst2pdf" script, it might declare it like this, so that the "PDF" requirements are only resolved if the "rst2pdf" script is run::

```
  setup(
     name="Project-A",
     ...
     entry_points = {
        'console_scripts': [
           'rst2pdf = project_a.tools.pdfgen
 [PDF]',
           'rst2html = project_a.tools.htmlgen',
           # more script entry points ...
        ],
     }
  )
```

Projects can also use another project's extras when specifying dependencies. For example, if project B needs "project A" with PDF support installed, it might declare the dependency like this::

```
  setup(
     name="Project-B",
     install_requires = ["Project-A[PDF]"],
     ...
  )
```

This will cause ReportLab to be installed along with project A, if project B is
installed -- even if project A was already installed. In this way, a project
can encapsulate groups of optional "downstream dependencies" under a feature
name, so that packages that depend on it don't have to know what the downstream
dependencies are. If a later version of Project A builds in PDF support and
no longer needs ReportLab, or if it ends up needing other dependencies besides
ReportLab in order to provide PDF support, Project B's setup information
 does
not need to change, but the right packages will still be installed if needed.

Note, by the way, that if a project ends up not needing any other packages to
support a feature, it should keep an empty requirements list for that feature
in its ``extras_require`` argument, so that packages depending on that feature
don't break (due to an invalid feature name). For example, if Project A above
builds in PDF support and no longer needs ReportLab, it could change its
setup to this::

```
  setup(
     name="Project-A",
     ...
     extras_require = {
        'PDF':  [],
        'reST': ["docutils>=0.3"],
     }
  )
```

so that Package B doesn't have to remove the ``[PDF]`` from its requirement
specifier.

Including Data Files
====================

The distutils have traditionally allowed installation of "data files", which
are placed in a platform-specific location. However, the most common use case
for data files distributed with a package is for use *by* the package,
 usually
by including the data files in the package directory.

Setuptools offers three ways to specify data files to be included in your
packages. First, you can simply use the ``include_package_data`` keyword,

e.g.::

```
from setuptools import setup, find_packages
setup(
    ...
    include_package_data = True
)
```

This tells setuptools to install any data files it finds in your packages.
The data files must be specified via the distutils' ``MANIFEST.in`` file.
(They can also be tracked by a revision control system, using an appropriate
plugin. See the section below on `Adding Support for Revision Control
Systems`_ for information on how to write such plugins.)

If you want finer-grained control over what files are included (for example,
if you have documentation files in your package directories and want to exclude
them from installation), then you can also use the ``package_data`` keyword,
e.g.::

```
from setuptools import setup, find_packages
setup(

...
    package_data = {
        # If any package contains *.txt or *.rst files, include them:
        '': ['*.txt', '*.rst'],
        # And include any *.msg files found in the 'hello' package, too:
        'hello': ['*.msg'],
    }
)
```

The ``package_data`` argument is a dictionary that maps from package names to
lists of glob patterns. The globs may include subdirectory names, if the data
files are contained in a subdirectory of the package. For example, if the
package tree looks like this::

```
setup.py
src/
    mypkg/
        __init__.py
        mypkg.txt
        data/
            somefile.dat
            otherdata.dat
```

The setuptools setup file might look like this::

```
from setuptools import setup, find_packages
```

```
  setup(
      ...
      packages = find_packages('src'),  # include all packages under src
      package_dir = {'':'src'},   # tell distutils packages are under src

      package_data = {

  # If any package contains *.txt files, include them:
          '': ['*.txt'],
          # And include any *.dat files found in the 'data' subdirectory
          # of the 'mypkg' package, also:
          'mypkg': ['data/*.dat'],
      }
  )
```

Notice that if you list patterns in ``package_data`` under the empty string,
these patterns are used to find files in every package, even ones that also
have their own patterns listed. Thus, in the above example, the ``mypkg.txt``
file gets included even though it's not listed in the patterns for ``mypkg``.

Also notice that if you use paths, you *must* use a forward slash (``/``) as
the path separator, even if you are on Windows. Setuptools automatically
converts slashes to appropriate platform-specific separators at build time.

(Note: although the ``package_data`` argument was previously only available in
``setuptools``, it was also added to the Python ``distutils`` package as of
Python 2.4; there is `some documentation for the feature`__
 available on the
python.org website. If using the setuptools-specific ``include_package_data``
argument, files specified by ``package_data`` will *not* be automatically
added to the manifest unless they are listed in the MANIFEST.in file.)

__ http://docs.python.org/dist/node11.html

Sometimes, the ``include_package_data`` or ``package_data`` options alone
aren't sufficient to precisely define what files you want included. For
example, you may want to include package README files in your revision control
system and source distributions, but exclude them from being installed. So,
setuptools offers an ``exclude_package_data`` option as well, that allows you
to do things like this::

```
  from setuptools import setup, find_packages
  setup(
      ...
      packages = find_packages('src'),  # include all packages under src
      package_dir = {'':'src'},   # tell distutils packages are under src

      include_package_data = True,    # include everything in source control
```

```
    # ...but exclude README.txt from all packages
    exclude_package_data = { '': ['README.txt'] },
)
```

The ``exclude_package_data`` option is a dictionary mapping package names to lists of wildcard patterns, just like the ``package_data`` option. And, just as with that option, a key of ``''`` will apply the given pattern(s) to all packages. However, any files that match these patterns will be *excluded* from installation, even if they were listed in ``package_data`` or were included as a result of using ``include_package_data``.

In summary, the three options allow you to:

``include_package_data``
  Accept all data files and directories matched by ``MANIFEST.in``.

``package_data``
  Specify additional patterns to match files and directories that may or may
  not be matched by ``MANIFEST.in`` or found in source control.

``exclude_package_data``
  Specify patterns for data files and directories that should *not* be
  included when a package is installed,
 even if they would otherwise have
  been included due to the use of the preceding options.

NOTE: Due to the way the distutils build process works, a data file that you include in your project and then stop including may be "orphaned" in your project's build directories, requiring you to run ``setup.py clean --all`` to fully remove them. This may also be important for your users and contributors if they track intermediate revisions of your project using Subversion; be sure to let them know when you make changes that remove files from inclusion so they can run ``setup.py clean --all``.

Accessing Data Files at Runtime

Typically, existing programs manipulate a package's ``__file__`` attribute in order to find the location of data files. However, this manipulation isn't compatible with PEP 302-based import hooks, including importing from zip files and Python Eggs. It is strongly recommended that, if you are using data files, you should use the `Resource
 Management API`_ of ``pkg_resources`` to access
them. The ``pkg_resources`` module is distributed as part of setuptools, so if you're using setuptools to distribute your package, there is no reason not to use its resource management API. See also `Accessing Package Resources`_ for

a quick example of converting code that uses ``__file__`` to use
``pkg_resources`` instead.

.. _Resource Management API: http://peak.telecommunity.com/DevCenter/PythonEggs#resource-management
.. _Accessing Package Resources: http://peak.telecommunity.com/DevCenter/PythonEggs#accessing-package-resources

Non-Package Data Files

The ``distutils`` normally install general "data files" to a platform-specific
location (e.g. ``/usr/share``). This feature intended to be used for things
like documentation, example configuration files, and the like. ``setuptools``
does not install these data files in a separate location, however. They are
bundled inside the egg file or directory, alongside
the Python modules and
packages. The data files can also be accessed using the `Resource Management
API`_, by specifying a ``Requirement`` instead of a package name::

```
from pkg_resources import Requirement, resource_filename
filename = resource_filename(Requirement.parse("MyProject"),"sample.conf")
```

The above code will obtain the filename of the "sample.conf" file in the data
root of the "MyProject" distribution.

Note, by the way, that this encapsulation of data files means that you can't
actually install data files to some arbitrary location on a user's machine;
this is a feature, not a bug. You can always include a script in your
distribution that extracts and copies your the documentation or data files to
a user-specified location, at their discretion. If you put related data files
in a single directory, you can use ``resource_filename()`` with the directory
name to get a filesystem directory that then can be copied with the ``shutil``
module. (Even if your package
is installed as a zipfile, calling
``resource_filename()`` on a directory will return an actual filesystem
directory, whose contents will be that entire subtree of your distribution.)

(Of course, if you're writing a new package, you can just as easily place your
data files or directories inside one of your packages, rather than using the
distutils' approach. However, if you're updating an existing application, it
may be simpler not to change the way it currently specifies these data files.)

Automatic Resource Extraction

If you are using tools that expect your resources to be "real" files, or your

project includes non-extension native libraries or other files that your C extensions expect to be able to access, you may need to list those files in the ``eager_resources`` argument to ``setup()``, so that the files will be extracted together, whenever a C extension in the project is imported.

This is especially important if your project includes shared
 libraries *other*
than distutils-built C extensions, and those shared libraries use file extensions other than ``.dll``, ``.so``, or ``.dylib``, which are the extensions that setuptools 0.6a8 and higher automatically detects as shared libraries and adds to the ``native_libs.txt`` file for you. Any shared libraries whose names do not end with one of those extensions should be listed as ``eager_resources``, because they need to be present in the filesystem when he C extensions that link to them are used.

The ``pkg_resources`` runtime for compressed packages will automatically extract *all* C extensions and ``eager_resources`` at the same time, whenever *any* C extension or eager resource is requested via the ``resource_filename()`` API. (C extensions are imported using ``resource_filename()`` internally.) This ensures that C extensions will see all of the "real" files that they expect to see.

Note also that you can list directory resource names in ``eager_resources`` as well, in which
 case the directory's contents (including subdirectories) will be extracted whenever any C extension or eager resource is requested.

Please note that if you're not sure whether you need to use this argument, you don't! It's really intended to support projects with lots of non-Python dependencies and as a last resort for crufty projects that can't otherwise handle being compressed. If your package is pure Python, Python plus data files, or Python plus C, you really don't need this. You've got to be using either C or an external program that needs "real" files in your project before there's any possibility of ``eager_resources`` being relevant to your project.

Extensible Applications and Frameworks
==========

.. _Entry Points:

Dynamic Discovery of Services and Plugins

``setuptools`` supports creating libraries that "plug in" to extensible applications and frameworks, by letting you register "entry points" in

your
project that can be imported by the application or framework.

For example, suppose that a blogging tool wants to support plugins
that provide translation for various file types to the blog's output format.
The framework might define an "entry point group" called ``blogtool.parsers``,
and then allow plugins to register entry points for the file extensions they
support.

This would allow people to create distributions that contain one or more
parsers for different file types, and then the blogging tool would be able to
find the parsers at runtime by looking up an entry point for the file
extension (or mime type, or however it wants to).

Note that if the blogging tool includes parsers for certain file formats, it
can register these as entry points in its own setup script, which means it
doesn't have to special-case its built-in formats. They can just be treated
the same as any other plugin's entry points would be.

If you're creating a project that plugs in to an existing application
or
framework, you'll need to know what entry points or entry point groups are
defined by that application or framework. Then, you can register entry points
in your setup script. Here are a few examples of ways you might register an
``.rst`` file parser entry point in the ``blogtool.parsers`` entry point group,
for our hypothetical blogging tool::

```
setup(
    # ...
    entry_points = {'blogtool.parsers': '.rst = some_module:SomeClass'}
)

setup(
    # ...
    entry_points = {'blogtool.parsers': ['.rst = some_module:a_func']}
)

setup(
    # ...
    entry_points = """
        [blogtool.parsers]
        .rst = some.nested.module:SomeClass.some_classmethod [reST]
    """,
    extras_require = dict(reST = "Docutils>=0.3.5")
)
```

The ``entry_points`` argument to ``setup()`` accepts either a string with
``.ini``-style sections, or a dictionary mapping entry point group names to

either strings or lists of strings containing entry
 point specifiers. An
entry point specifier consists of a name and value, separated by an ``=``
sign. The value consists of a dotted module name, optionally followed by a
``:`` and a dotted identifier naming an object within the module. It can
also include a bracketed list of "extras" that are required for the entry
point to be used. When the invoking application or framework requests loading
of an entry point, any requirements implied by the associated extras will be
passed to ``pkg_resources.require()``, so that an appropriate error message
can be displayed if the needed package(s) are missing. (Of course, the
invoking app or framework can ignore such errors if it wants to make an entry
point optional if a requirement isn't installed.)

Defining Additional Metadata

Some extensible applications and frameworks may need to define their own kinds
of metadata to include in eggs, which they can then access using the
``pkg_resources`` metadata APIs.
 Ordinarily, this is done by having plugin
developers include additional files in their ``ProjectName.egg-info``
directory. However, since it can be tedious to create such files by hand, you
may want to create a distutils extension that will create the necessary files
from arguments to ``setup()``, in much the same way that ``setuptools`` does
for many of the ``setup()`` arguments it adds. See the section below on
`Creating distutils Extensions`_ for more details, especially the subsection on
`Adding new EGG-INFO Files`_.

"Development Mode"
==========

Under normal circumstances, the ``distutils`` assume that you are going to
build a distribution of your project, not use it in its "raw" or "unbuilt"
form. If you were to use the ``distutils`` that way, you would have to rebuild
and reinstall your project every time you made a change to it during
development.

Another problem that sometimes comes up with the ``distutils`` is that you may
need to do development on two related
 projects at the same time. You may need
to put both projects' packages in the same directory to run them, but need to
keep them separate for revision control purposes. How can you do this?

Setuptools allows you to deploy your projects for use in a common directory or
staging area, but without copying any files. Thus, you can edit each project's
code in its checkout directory, and only need to run build commands when you

change a project's C extensions or similarly compiled files. You can even
deploy a project into another project's checkout directory, if that's your
preferred way of working (as opposed to using a common independent staging area
or the site-packages directory).

To do this, use the ``setup.py develop`` command. It works very similarly to
``setup.py install`` or the EasyInstall tool, except that it doesn't actually
install anything. Instead, it creates a special ``.egg-link`` file in the
deployment directory, that links to your project's source code. And, if your
deployment
 directory is Python's ``site-packages`` directory, it will also
update the ``easy-install.pth`` file to include your project's source code,
thereby making it available on ``sys.path`` for all programs using that Python
installation.

If you have enabled the ``use_2to3`` flag, then of course the ``.egg-link``
will not link directly to your source code when run under Python 3, since
that source code would be made for Python 2 and not work under Python 3.
Instead the ``setup.py develop`` will build Python 3 code under the ``build``
directory, and link there. This means that after doing code changes you will
have to run ``setup.py build`` before these changes are picked up by your
Python 3 installation.

In addition, the ``develop`` command creates wrapper scripts in the target
script directory that will run your in-development scripts after ensuring that
all your ``install_requires`` packages are available on ``sys.path``.

You can deploy the same project to multiple staging areas,
 e.g. if you have
multiple projects on the same machine that are sharing the same project you're
doing development work.

When you're done with a given development task, you can remove the project
source from a staging area using ``setup.py develop --uninstall``, specifying
the desired staging area if it's not the default.

There are several options to control the precise behavior of the ``develop``
command; see the section on the `develop`_ command below for more details.

Note that you can also apply setuptools commands to non-setuptools projects,
using commands like this::

```
  python -c "import setuptools; execfile('setup.py')" develop
```

That is, you can simply list the normal setup commands and options following
the quoted part.

Distributing a ``setuptools``-based project
==========

Using ``setuptools``... Without bundling it!

Your users might not have ``setuptools`` installed on their machines,
 or even
if they do, it might not be the right version. Fixing this is easy; just
download `ez_setup.py`_, and put it in the same directory as your ``setup.py``
script. (Be sure to add it to your revision control system, too.) Then add
these two lines to the very top of your setup script, before the script imports
anything from setuptools:

.. code-block:: python

  import ez_setup
  ez_setup.use_setuptools()

That's it. The ``ez_setup`` module will automatically download a matching
version of ``setuptools`` from PyPI, if it isn't present on the target system.
Whenever you install an updated version of setuptools, you should also update
your projects' ``ez_setup.py`` files, so that a matching version gets installed
on the target machine(s).

By the way, setuptools supports the new PyPI "upload" command, so you can use
``setup.py sdist upload`` or ``setup.py bdist_egg upload`` to upload your
source or egg distributions respectively. Your project's current version must
be registered
 with PyPI first, of course; you can use ``setup.py register`` to
do that. Or you can do it all in one step, e.g. ``setup.py register sdist
bdist_egg upload`` will register the package, build source and egg
distributions, and then upload them both to PyPI, where they'll be easily
found by other projects that depend on them.

(By the way, if you need to distribute a specific version of ``setuptools``,
you can specify the exact version and base download URL as parameters to the
``use_setuptools()`` function. See the function's docstring for details.)

What Your Users Should Know

In general, a setuptools-based project looks just like any distutils-based
project -- as long as your users have an internet connection and are installing
to ``site-packages``, that is. But for some users, these conditions don't
apply, and they may become frustrated if this is their first encounter with
a setuptools-based project. To keep these users happy, you should review

the
following topics in your project's installation instructions, if they are relevant to your project and your target audience isn't already familiar with setuptools and ``easy_install``.

Network Access
If your project is using ``ez_setup``, you should inform users of the need to either have network access, or to preinstall the correct version of setuptools using the `EasyInstall installation instructions`_. Those instructions also have tips for dealing with firewalls as well as how to manually download and install setuptools.

Custom Installation Locations
You should inform your users that if they are installing your project to somewhere other than the main ``site-packages`` directory, they should first install setuptools using the instructions for `Custom Installation Locations`_, before installing your project.

Your Project's Dependencies
If your project depends on other projects that may need to be downloaded from PyPI or elsewhere, you
should list them in your installation
instructions, or tell users how to find out what they are. While most users will not need this information, any users who don't have unrestricted internet access may have to find, download, and install the other projects manually. (Note, however, that they must still install those projects using ``easy_install``, or your project will not know they are installed, and your setup script will try to download them again.)

If you want to be especially friendly to users with limited network access, you may wish to build eggs for your project and its dependencies, making them all available for download from your site, or at least create a page with links to all of the needed eggs. In this way, users with limited network access can manually download all the eggs to a single directory, then use the ``-f`` option of ``easy_install`` to specify the directory to find eggs in. Users who have full network
access can just use ``-f``
with the URL of your download page, and ``easy_install`` will find all the needed eggs using your links directly. This is also useful when your target audience isn't able to compile packages (e.g. most Windows users) and your package or some of its dependencies include C code.

Revision Control System Users and Co-Developers
Users and co-developers who are tracking your in-development code using a revision control system should probably read this manual's sections regarding such development. Alternately, you may wish to create a quick-reference guide containing the tips from this manual that apply to your particular situation. For example, if you recommend that people use

``setup.py develop`` when tracking your in-development code, you should let them know that this needs to be run after every update or commit.

Similarly, if you remove modules or data files from your project, you should remind them to
run ``setup.py clean --all`` and delete any obsolete ``.pyc`` or ``.pyo``. (This tip applies to the distutils in general, not just setuptools, but not everybody knows about them; be kind to your users by spelling out your project's best practices rather than leaving them guessing.)

Creating System Packages

Some users want to manage all Python packages using a single package manager, and sometimes that package manager isn't ``easy_install``! Setuptools currently supports ``bdist_rpm``, ``bdist_wininst``, and ``bdist_dumb`` formats for system packaging. If a user has a locally-installed "bdist" packaging tool that internally uses the distutils ``install`` command, it should be able to work with ``setuptools``. Some examples of "bdist" formats that this should work with include the ``bdist_nsi`` and ``bdist_msi`` formats for Windows.

However, packaging tools that build binary distributions by running ``setup.py install`` on the
command line or as a subprocess will require modification to work with setuptools. They should use the ``--single-version-externally-managed`` option to the ``install`` command, combined with the standard ``--root`` or ``--record`` options. See the `install command`_ documentation below for more details. The ``bdist_deb`` command is an example of a command that currently requires this kind of patching to work with setuptools.

If you or your users have a problem building a usable system package for your project, please report the problem via the mailing list so that either the "bdist" tool in question or setuptools can be modified to resolve the issue.

Setting the ``zip_safe`` flag

For some use cases (such as bundling as part of a larger application), Python packages may be run directly from a zip file.
Not all packages, however, are capable of running in compressed form, because they may expect to be able to access
either source code or data files as
normal operating system files. So, ``setuptools`` can install your project as a zipfile or a directory, and its default choice is determined by the project's ``zip_safe`` flag.

You can pass a True or False value for the ``zip_safe`` argument to the ``setup()`` function, or you can omit it. If you omit it, the ``bdist_egg`` command will analyze your project's contents to see if it can detect any conditions that would prevent it from working in a zipfile. It will output notices to the console about any such conditions that it finds.

Currently, this analysis is extremely conservative: it will consider the project unsafe if it contains any C extensions or datafiles whatsoever. This does *not* mean that the project can't or won't work as a zipfile! It just means that the ``bdist_egg`` authors aren't yet comfortable asserting that the project *will* work. If the project contains no C or data files, and does no ``__file__`` or ``__path__`` introspection
or source code manipulation, then
there is an extremely solid chance the project will work when installed as a zipfile. (And if the project uses ``pkg_resources`` for all its data file access, then C extensions and other data files shouldn't be a problem at all. See the `Accessing Data Files at Runtime`_ section above for more information.)

However, if ``bdist_egg`` can't be *sure* that your package will work, but you've checked over all the warnings it issued, and you are either satisfied it *will* work (or if you want to try it for yourself), then you should set ``zip_safe`` to ``True`` in your ``setup()`` call. If it turns out that it doesn't work, you can always change it to ``False``, which will force ``setuptools`` to install your project as a directory rather than as a zipfile.

Of course, the end-user can still override either decision, if they are using EasyInstall to install your package. And, if you want to override for testing purposes, you can just run ``setup.py
easy_install --zip-ok .`` or ``setup.py
easy_install --always-unzip .`` in your project directory. to install the package as a zipfile or directory, respectively.

In the future, as we gain more experience with different packages and become more satisfied with the robustness of the ``pkg_resources`` runtime, the "zip safety" analysis may become less conservative. However, we strongly recommend that you determine for yourself whether your project functions correctly when installed as a zipfile, correct any problems if you can, and then make an explicit declaration of ``True`` or ``False`` for the ``zip_safe`` flag, so that it will not be necessary for ``bdist_egg`` or ``EasyInstall`` to try to guess whether your project can work as a zipfile.

Namespace Packages

Sometimes, a large package is more useful if distributed as a collection of smaller eggs. However, Python does not normally allow the contents of a

package to be retrieved from more than one location.
  "Namespace packages"
are a solution for this problem. When you declare a package to be a namespace package, it means that the package has no meaningful contents in its ``__init__.py``, and that it is merely a container for modules and subpackages.

The ``pkg_resources`` runtime will then automatically ensure that the contents of namespace packages that are spread over multiple eggs or directories are combined into a single "virtual" package.

The ``namespace_packages`` argument to ``setup()`` lets you declare your project's namespace packages, so that they will be included in your project's metadata. The argument should list the namespace packages that the egg participates in. For example, the ZopeInterface project might do this::

```
  setup(
      # ...
      namespace_packages = ['zope']
  )
```

because it contains a ``zope.interface`` package that lives in the ``zope`` namespace package. Similarly, a project for a standalone ``zope.publisher`` would also declare the ``zope``
 namespace package. When these projects are
installed and used, Python will see them both as part of a "virtual" ``zope`` package, even though they will be installed in different locations.

Namespace packages don't have to be top-level packages. For example, Zope 3's ``zope.app`` package is a namespace package, and in the future PEAK's ``peak.util`` package will be too.

Note, by the way, that your project's source tree must include the namespace packages' ``__init__.py`` files (and the ``__init__.py`` of any parent packages), in a normal Python package layout. These ``__init__.py`` files *must* contain the line::

```
  __import__('pkg_resources').declare_namespace(__name__)
```

This code ensures that the namespace package machinery is operating and that the current package is registered as a namespace package.

You must NOT include any other code and data in a namespace package's ``__init__.py``. Even though it may appear to work during development, or when projects are installed as
 ``.egg`` files, it will not work when the projects
are installed using "system" packaging tools -- in such cases the ``__init__.py`` files will not be installed, let alone executed.

You must include the ``declare_namespace()`` line in the ``__init__.py`` of *every* project that has contents for the namespace package in question, in order to ensure that the namespace will be declared regardless of which project's copy of ``__init__.py`` is loaded first. If the first loaded ``__init__.py`` doesn't declare it, it will never *be* declared, because no other copies will ever be loaded!

TRANSITIONAL NOTE
~~~~~~~~~~~~~~~~~~

Setuptools automatically calls ``declare_namespace()`` for you at runtime, but future versions may *not*. This is because the automatic declaration feature has some negative side effects, such as needing to import all namespace packages during the initialization of the ``pkg_resources`` runtime, and also the need for ``pkg_resources`` to be explicitly imported before any namespace packages work at all. In some future releases, you'll be responsible for including your own declaration lines, and the automatic declaration feature will be dropped to get rid of the negative side effects.

During the remainder of the current development cycle, therefore, setuptools will warn you about missing ``declare_namespace()`` calls in your ``__init__.py`` files, and you should correct these as soon as possible before the compatibility support is removed. Namespace packages without declaration lines will not work correctly once a user has upgraded to a later version, so it's important that you make this change now in order to avoid having your code break in the field. Our apologies for the inconvenience, and thank you for your patience.

Tagging and "Daily Build" or "Snapshot" Releases

When a set of related projects are under development, it may be important to track finer-grained version increments than you would normally use for e.g. "stable" releases. While stable releases might be measured in dotted numbers with alpha/beta/etc. status codes, development versions of a project often need to be tracked by revision or build number or even build date. This is especially true when projects in development need to refer to one another, and therefore may literally need an up-to-the-minute version of something!

To support these scenarios, ``setuptools`` allows you to "tag" your source and egg distributions by adding one or more of the following to the project's "official" version identifier:
~~~~~~~~~~~~~~~~~~

* A manually-specified pre-release tag, such as "build" or "dev", or a
 manually-specified post-release tag, such as a build or revision number
 (``--tag-build=STRING, -bSTRING``)

* A "last-modified revision number" string generated automatically from
 Subversion's metadata (assuming your project is being built from a Subversion
 "working copy") (``--tag-svn-revision, -r``)

* An 8-character representation
 of the build date (``--tag-date, -d``), as
 a postrelease tag

You can add these tags by adding ``egg_info`` and the desired options to
the command line ahead of the ``sdist`` or ``bdist`` commands that you want
to generate a daily build or snapshot for. See the section below on the
`egg_info`_ command for more details.

(Also, before you release your project, be sure to see the section above on
`Specifying Your Project's Version`_ for more information about how pre- and
post-release tags affect how setuptools and EasyInstall interpret version
numbers. This is important in order to make sure that dependency processing
tools will know which versions of your project are newer than others.)

Finally, if you are creating builds frequently, and either building them in a
downloadable location or are copying them to a distribution server, you should
probably also check out the `rotate`_ command, which lets you automatically
delete all but the N most-recently-modified distributions matching
 a glob
pattern. So, you can use a command line like::

  setup.py egg_info -rbDEV bdist_egg rotate -m.egg -k3

to build an egg whose version info includes 'DEV-rNNNN' (where NNNN is the
most recent Subversion revision that affected the source tree), and then
delete any egg files from the distribution directory except for the three
that were built most recently.

If you have to manage automated builds for multiple packages, each with
different tagging and rotation policies, you may also want to check out the
`alias`_ command, which would let each package define an alias like ``daily``
that would perform the necessary tag, build, and rotate commands. Then, a
simpler script or cron job could just run ``setup.py daily`` in each project
directory. (And, you could also define sitewide or per-user default versions
of the ``daily`` alias, so that projects that didn't define their own would
use the appropriate defaults.)

Generating Source Distributions

``setuptools``
 enhances the distutils' default algorithm for source file
selection with pluggable endpoints for looking up files to include. If you are
using a revision control system, and your source distributions only need to
include files that you're tracking in revision control, use a corresponding
plugin instead of writing a ``MANIFEST.in`` file. See the section below on
`Adding Support for Revision Control Systems`_ for information on plugins.

If you need to include automatically generated files, or files that are kept in
an unsupported revision control system, you'll need to create a ``MANIFEST.in``
file to specify any files that the default file location algorithm doesn't
catch. See the distutils documentation for more information on the format of
the ``MANIFEST.in`` file.

But, be sure to ignore any part of the distutils documentation that deals with
``MANIFEST`` or how it's generated from ``MANIFEST.in``; setuptools shields you
from these issues and doesn't work the same
 way in any case. Unlike the
distutils, setuptools regenerates the source distribution manifest file
every time you build a source distribution, and it builds it inside the
project's ``.egg-info`` directory, out of the way of your main project
directory. You therefore need not worry about whether it is up-to-date or not.

Indeed, because setuptools' approach to determining the contents of a source
distribution is so much simpler, its ``sdist`` command omits nearly all of
the options that the distutils' more complex ``sdist`` process requires. For
all practical purposes, you'll probably use only the ``--formats`` option, if
you use any option at all.

Making your package available for EasyInstall

If you use the ``register`` command (``setup.py register``) to register your
package with PyPI, that's most of the battle right there. (See the
`docs for the register command`_ for more details.)

.. _docs for the register command: http://docs.python.org/dist/package-index.html

If
 you also use the `upload`_ command to upload actual distributions of your
package, that's even better, because EasyInstall will be able to find and
download them directly from your project's PyPI page.

However, there may be reasons why you don't want to upload distributions to
PyPI, and just want your existing distributions (or perhaps a Subversion

checkout) to be used instead.

So here's what you need to do before running the ``register`` command. There are three ``setup()`` arguments that affect EasyInstall:

``url`` and ``download_url``
 These become links on your project's PyPI page. EasyInstall will examine them to see if they link to a package ("primary links"), or whether they are HTML pages. If they're HTML pages, EasyInstall scans all HREF's on the page for primary links

``long_description``
 EasyInstall will check any URLs contained in this argument to see if they are primary links.

A URL is considered a "primary
 link" if it is a link to a .tar.gz, .tgz, .zip,
.egg, .egg.zip, .tar.bz2, or .exe file, or if it has an ``#egg=project`` or ``#egg=project-version`` fragment identifier attached to it. EasyInstall attempts to determine a project name and optional version number from the text of a primary link *without* downloading it. When it has found all the primary links, EasyInstall will select the best match based on requested version, platform compatibility, and other criteria.

So, if your ``url`` or ``download_url`` point either directly to a downloadable source distribution, or to HTML page(s) that have direct links to such, then EasyInstall will be able to locate downloads automatically. If you want to make Subversion checkouts available, then you should create links with either ``#egg=project`` or ``#egg=project-version`` added to the URL. You should replace ``project`` and ``version`` with the values they would have in an egg filename. (Be sure to actually generate an egg and then use
 the initial part
of the filename, rather than trying to guess what the escaped form of the project name and version number will be.)

Note that Subversion checkout links are of lower precedence than other kinds of distributions, so EasyInstall will not select a Subversion checkout for downloading unless it has a version included in the ``#egg=`` suffix, and it's a higher version than EasyInstall has seen in any other links for your project.

As a result, it's a common practice to use mark checkout URLs with a version of "dev" (i.e., ``#egg=projectname-dev``), so that users can do something like this::

  easy_install --editable projectname==dev

in order to check out the in-development version of ``projectname``.

Managing "Continuous Releases" Using Subversion

If you expect your users to track in-development versions of your project via
Subversion, there are a few additional steps you should take to ensure that
things work smoothly
 with EasyInstall. First, you should add the following
to your project's ``setup.cfg`` file:

.. code-block:: ini

  [egg_info]
  tag_build = .dev
  tag_svn_revision = 1

This will tell ``setuptools`` to generate package version numbers like
``1.0a1.dev-r1263``, which will be considered to be an *older* release than
``1.0a1``. Thus, when you actually release ``1.0a1``, the entire egg
infrastructure (including ``setuptools``, ``pkg_resources`` and EasyInstall)
will know that ``1.0a1`` supersedes any interim snapshots from Subversion, and
handle upgrades accordingly.

(Note: the project version number you specify in ``setup.py`` should always be
the *next* version of your software, not the last released version.
Alternately, you can leave out the ``tag_build=.dev``, and always use the
last release as a version number, so that your post-1.0 builds are labelled
``1.0-r1263``, indicating a post-1.0 patchlevel. Most projects so far,
however, seem to prefer to think of their project
 as being a future version
still under development, rather than a past version being patched. It is of
course possible for a single project to have both situations, using
post-release numbering on release branches, and pre-release numbering on the
trunk. But you don't have to make things this complex if you don't want to.)

Commonly, projects releasing code from Subversion will include a PyPI link to
their checkout URL (as described in the previous section) with an
``#egg=projectname-dev`` suffix. This allows users to request EasyInstall
to download ``projectname==dev`` in order to get the latest in-development
code. Note that if your project depends on such in-progress code, you may wish
to specify your ``install_requires`` (or other requirements) to include
``==dev``, e.g.:

.. code-block:: python

  install_requires = ["OtherProject>=0.2a1.dev-r143,==dev"]

The above example says, "I really want at least this particular development
revision number, but feel free to follow and
 use an ``#egg=OtherProject-dev``
link if you find one". This avoids the need to have actual source or binary
distribution snapshots of in-development code available, just to be able to
depend on the latest and greatest a project has to offer.

A final note for Subversion development: if you are using SVN revision tags
as described in this section, it's a good idea to run ``setup.py develop``
after each Subversion checkin or update, because your project's version number
will be changing, and your script wrappers need to be updated accordingly.

Also, if the project's requirements have changed, the ``develop`` command will
take care of fetching the updated dependencies, building changed extensions,
etc. Be sure to also remind any of your users who check out your project
from Subversion that they need to run ``setup.py develop`` after every update
in order to keep their checkout completely in sync.

Making "Official" (Non-Snapshot) Releases
~~~~~~

When
 you make an official release, creating source or binary distributions,
you will need to override the tag settings from ``setup.cfg``, so that you
don't end up registering versions like ``foobar-0.7a1.dev-r34832``. This is
easy to do if you are developing on the trunk and using tags or branches for
your releases - just make the change to ``setup.cfg`` after branching or
tagging the release, so the trunk will still produce development snapshots.

Alternately, if you are not branching for releases, you can override the
default version options on the command line, using something like::

```
python setup.py egg_info -RDb "" sdist bdist_egg register upload
```

The first part of this command (``egg_info -RDb ""``) will override the
configured tag information, before creating source and binary eggs, registering
the project with PyPI, and uploading the files. Thus, these commands will use
the plain version from your ``setup.py``, without adding the Subversion
revision number or build designation
 string.

Of course, if you will be doing this a lot, you may wish to create a personal
alias for this operation, e.g.::

```
python setup.py alias -u release egg_info -RDb ""
```

You can then use it like this::
~~~~~~

```
python setup.py release sdist bdist_egg register upload
```

Or of course you can create more elaborate aliases that do all of the above.
See the sections below on the `egg_info`_ and `alias`_ commands for more ideas.

Distributing Extensions compiled with Pyrex

``setuptools`` includes transparent support for building Pyrex extensions, as long as you define your extensions using ``setuptools.Extension``, *not* ``distutils.Extension``. You must also not import anything from Pyrex in your setup script.

If you follow these rules, you can safely list ``.pyx`` files as the source of your ``Extension`` objects in the setup script. ``setuptools`` will detect at build time whether Pyrex is installed or not. If it is, then ``setuptools`` will
use it. If not, then ``setuptools`` will silently change the ``Extension`` objects to refer to the ``.c`` counterparts of the ``.pyx`` files, so that the normal distutils C compilation process will occur.

Of course, for this to work, your source distributions must include the C code generated by Pyrex, as well as your original ``.pyx`` files. This means that you will probably want to include current ``.c`` files in your revision control system, rebuilding them whenever you check changes in for the ``.pyx`` source files. This will ensure that people tracking your project in a revision control system will be able to build it even if they don't have Pyrex installed, and that your source releases will be similarly usable with or without Pyrex.

Command Reference

.. _alias:

``alias`` - Define shortcuts for commonly used commands
===

Sometimes, you need to use the same commands over and
over, but you can't
necessarily set them as defaults. For example, if you produce both development snapshot releases and "stable" releases of a project, you may want to put the distributions in different places, or use different ``egg_info`` tagging

options, etc. In these cases, it doesn't make sense to set the options in
a distutils configuration file, because the values of the options changed based
on what you're trying to do.

Setuptools therefore allows you to define "aliases" - shortcut names for
an arbitrary string of commands and options, using ``setup.py alias aliasname
expansion``, where aliasname is the name of the new alias, and the remainder of
the command line supplies its expansion. For example, this command defines
a sitewide alias called "daily", that sets various ``egg_info`` tagging
options::

  setup.py alias --global-config daily egg_info --tag-svn-revision \
     --tag-build=development

Once the alias is defined, it can then be used with other setup commands,
e.g.::

   setup.py daily bdist_egg   # generate a daily-build .egg file
  setup.py daily sdist   # generate a daily-build source distro
  setup.py daily sdist bdist_egg # generate both

The above commands are interpreted as if the word ``daily`` were replaced with
``egg_info --tag-svn-revision --tag-build=development``.

Note that setuptools will expand each alias *at most once* in a given command
line. This serves two purposes. First, if you accidentally create an alias
loop, it will have no effect; you'll instead get an error message about an
unknown command. Second, it allows you to define an alias for a command, that
uses that command. For example, this (project-local) alias::

  setup.py alias bdist_egg bdist_egg rotate -k1 -m.egg

redefines the ``bdist_egg`` command so that it always runs the ``rotate``
command afterwards to delete all but the newest egg file. It doesn't loop
indefinitely on ``bdist_egg`` because the alias is only expanded once when
used.

You
 can remove a defined alias with the ``--remove`` (or ``-r``) option, e.g.::

  setup.py alias --global-config --remove daily

would delete the "daily" alias we defined above.

Aliases can be defined on a project-specific, per-user, or sitewide basis. The
default is to define or remove a project-specific alias, but you can use any of
the `configuration file options`_ (listed under the `saveopts`_ command, below)
to determine which distutils configuration file an aliases will be added to

(or removed from).

Note that if you omit the "expansion" argument to the ``alias`` command,
you'll get output showing that alias' current definition (and what
configuration file it's defined in). If you omit the alias name as well,
you'll get a listing of all current aliases along with their configuration
file locations.

``bdist_egg`` - Create a Python Egg for the project
==========

This command generates a Python Egg (``.egg`` file) for the project.
 Python
Eggs are the preferred binary distribution format for EasyInstall, because they
are cross-platform (for "pure" packages), directly importable, and contain
project metadata including scripts and information about the project's
dependencies. They can be simply downloaded and added to ``sys.path``
directly, or they can be placed in a directory on ``sys.path`` and then
automatically discovered by the egg runtime system.

This command runs the `egg_info`_ command (if it hasn't already run) to update
the project's metadata (``.egg-info``) directory. If you have added any extra
metadata files to the ``.egg-info`` directory, those files will be included in
the new egg file's metadata directory, for use by the egg runtime system or by
any applications or frameworks that use that metadata.

You won't usually need to specify any special options for this command; just
use ``bdist_egg`` and you're done. But there are a few options that may
be occasionally useful:

``--dist-dir=DIR,
 -d DIR``
  Set the directory where the ``.egg`` file will be placed. If you don't
  supply this, then the ``--dist-dir`` setting of the ``bdist`` command
  will be used, which is usually a directory named ``dist`` in the project
  directory.

``--plat-name=PLATFORM, -p PLATFORM``
  Set the platform name string that will be embedded in the egg's filename
  (assuming the egg contains C extensions). This can be used to override
  the distutils default platform name with something more meaningful. Keep
  in mind, however, that the egg runtime system expects to see eggs with
  distutils platform names, so it may ignore or reject eggs with non-standard
  platform names. Similarly, the EasyInstall program may ignore them when
  searching web pages for download links. However, if you are
  cross-compiling or doing some other unusual things, you might find a use
  for this option.

``--exclude-source-files``
  Don't include any modules' ``.py`` files in the egg,
 just compiled Python,
  C, and data files. (Note that this doesn't affect any ``.py`` files in the
  EGG-INFO directory or its subdirectories, since for example there may be
  scripts with a ``.py`` extension which must still be retained.) We don't
  recommend that you use this option except for packages that are being
  bundled for proprietary end-user applications, or for "embedded" scenarios
  where space is at an absolute premium. On the other hand, if your package
  is going to be installed and used in compressed form, you might as well
  exclude the source because Python's ``traceback`` module doesn't currently
  understand how to display zipped source code anyway, or how to deal with
  files that are in a different place from where their code was compiled.

There are also some options you will probably never need, but which are there
because they were copied from similar ``bdist`` commands used as an example for
creating this one. They may be useful for
 testing and debugging, however,
which is why we kept them:

``--keep-temp, -k``
  Keep the contents of the ``--bdist-dir`` tree around after creating the
  ``.egg`` file.

``--bdist-dir=DIR, -b DIR``
  Set the temporary directory for creating the distribution. The entire
  contents of this directory are zipped to create the ``.egg`` file, after
  running various installation commands to copy the package's modules, data,
  and extensions here.

``--skip-build``
  Skip doing any "build" commands; just go straight to the
  install-and-compress phases.

.. _develop:

``develop`` - Deploy the project source in "Development Mode"
===

This command allows you to deploy your project's source for use in one or more
"staging areas" where it will be available for importing. This deployment is
done in such a way that changes to the project source are immediately available
in the staging area(s), without needing to run
 a build or install step after
each change.

The ``develop`` command works by creating an ``.egg-link`` file (named for the project) in the given staging area. If the staging area is Python's ``site-packages`` directory, it also updates an ``easy-install.pth`` file so that the project is on ``sys.path`` by default for all programs run using that Python installation.

The ``develop`` command also installs wrapper scripts in the staging area (or a separate directory, as specified) that will ensure the project's dependencies are available on ``sys.path`` before running the project's source scripts. And, it ensures that any missing project dependencies are available in the staging area, by downloading and installing them if necessary.

Last, but not least, the ``develop`` command invokes the ``build_ext -i`` command to ensure any C extensions in the project have been built and are up-to-date, and the ``egg_info`` command to ensure the project's metadata is updated (so that the runtime and
 wrappers know what the project's dependencies
are). If you make any changes to the project's setup script or C extensions, you should rerun the ``develop`` command against all relevant staging areas to keep the project's scripts, metadata and extensions up-to-date. Most other kinds of changes to your project should not require any build operations or rerunning ``develop``, but keep in mind that even minor changes to the setup script (e.g. changing an entry point definition) require you to re-run the ``develop`` or ``test`` commands to keep the distribution updated.

Here are some of the options that the ``develop`` command accepts. Note that they affect the project's dependencies as well as the project itself, so if you have dependencies that need to be installed and you use ``--exclude-scripts`` (for example), the dependencies' scripts will not be installed either! For this reason, you may want to use EasyInstall to install the project's dependencies before using the ``develop`` command,
 if you need finer control
over the installation options for dependencies.

``--uninstall, -u``
  Un-deploy the current project. You may use the ``--install-dir`` or ``-d`` option to designate the staging area. The created ``.egg-link`` file will be removed, if present and it is still pointing to the project directory. The project directory will be removed from ``easy-install.pth`` if the staging area is Python's ``site-packages`` directory.

  Note that this option currently does *not* uninstall script wrappers! You must uninstall them yourself, or overwrite them by using EasyInstall to activate a different version of the package. You can also avoid installing script wrappers in the first place, if you use the ``--exclude-scripts`` (aka ``-x``) option when you run ``develop`` to deploy the project.

``--multi-version, -m``

"Multi-version" mode. Specifying this option prevents ``develop`` from
adding an ``easy-install.pth`` entry for
the project(s) being deployed, and
if an entry for any version of a project already exists, the entry will be
removed upon successful deployment. In multi-version mode, no specific
version of the package is available for importing, unless you use
``pkg_resources.require()`` to put it on ``sys.path``, or you are running
a wrapper script generated by ``setuptools`` or EasyInstall. (In which
case the wrapper script calls ``require()`` for you.)

Note that if you install to a directory other than ``site-packages``,
this option is automatically in effect, because ``.pth`` files can only be
used in ``site-packages`` (at least in Python 2.3 and 2.4). So, if you use
the ``--install-dir`` or ``-d`` option (or they are set via configuration
file(s)) your project and its dependencies will be deployed in multi-
version mode.

``--install-dir=DIR, -d DIR``
Set the installation directory (staging area). If this option is not
directly specified
on the command line or in a distutils configuration
file, the distutils default installation location is used. Normally, this
will be the ``site-packages`` directory, but if you are using distutils
configuration files, setting things like ``prefix`` or ``install_lib``,
then those settings are taken into account when computing the default
staging area.

``--script-dir=DIR, -s DIR``
Set the script installation directory. If you don't supply this option
(via the command line or a configuration file), but you *have* supplied
an ``--install-dir`` (via command line or config file), then this option
defaults to the same directory, so that the scripts will be able to find
their associated package installation. Otherwise, this setting defaults
to the location where the distutils would normally install scripts, taking
any distutils configuration file settings into account.

``--exclude-scripts, -x``
Don't deploy script wrappers. This
is useful if you don't want to disturb
existing versions of the scripts in the staging area.

``--always-copy, -a``
Copy all needed distributions to the staging area, even if they
are already present in another directory on ``sys.path``. By default, if
a requirement can be met using a distribution that is already available in
a directory on ``sys.path``, it will not be copied to the staging area.

``--egg-path=DIR``

Force the generated ``.egg-link`` file to use a specified relative path
to the source directory. This can be useful in circumstances where your
installation directory is being shared by code running under multiple
platforms (e.g. Mac and Windows) which have different absolute locations
for the code under development, but the same *relative* locations with
respect to the installation directory. If you use this option when
installing, you must supply the same relative path when uninstalling.

In addition to the above options,
the ``develop`` command also accepts all of
the same options accepted by ``easy_install``. If you've configured any
``easy_install`` settings in your ``setup.cfg`` (or other distutils config
files), the ``develop`` command will use them as defaults, unless you override
them in a ``[develop]`` section or on the command line.

``easy_install`` - Find and install packages
==========

This command runs the `EasyInstall tool
<easy_install.html>`_ for you. It is exactly
equivalent to running the ``easy_install`` command. All command line arguments
following this command are consumed and not processed further by the distutils,
so this must be the last command listed on the command line. Please see
the EasyInstall documentation for the options reference and usage examples.
Normally, there is no reason to use this command via the command line, as you
can just use ``easy_install`` directly. It's only listed here so that you know
it's a distutils command,
which means that you can:

* create command aliases that use it,
* create distutils extensions that invoke it as a subcommand, and
* configure options for it in your ``setup.cfg`` or other distutils config
files.

.. _egg_info:

``egg_info`` - Create egg metadata and set build tags
==========

This command performs two operations: it updates a project's ``.egg-info``
metadata directory (used by the ``bdist_egg``, ``develop``, and ``test``
commands), and it allows you to temporarily change a project's version string,
to support "daily builds" or "snapshot" releases. It is run automatically by
the ``sdist``, ``bdist_egg``, ``develop``, ``register``, and ``test`` commands
in order to update the project's metadata, but you can also specify it
explicitly in order to temporarily change the project's version string while

executing other commands. (It also generates the``.egg-info/SOURCES.txt``
manifest file, which is used when you are building source
 distributions.)

In addition to writing the core egg metadata defined by ``setuptools`` and
required by ``pkg_resources``, this command can be extended to write other
metadata files as well, by defining entry points in the ``egg_info.writers``
group. See the section on `Adding new EGG-INFO Files`_ below for more details.
Note that using additional metadata writers may require you to include a
``setup_requires`` argument to ``setup()`` in order to ensure that the desired
writers are available on ``sys.path``.

Release Tagging Options

The following options can be used to modify the project's version string for
all remaining commands on the setup command line. The options are processed
in the order shown, so if you use more than one, the requested tags will be
added in the following order:

``--tag-build=NAME, -b NAME``
  Append NAME to the project's version string. Due to the way setuptools
  processes "pre-release" version suffixes beginning with the
 letters "a"
  through "e" (like "alpha", "beta", and "candidate"), you will usually want
  to use a tag like ".build" or ".dev", as this will cause the version number
  to be considered *lower* than the project's default version. (If you
  want to make the version number *higher* than the default version, you can
  always leave off --tag-build and then use one or both of the following
  options.)

  If you have a default build tag set in your ``setup.cfg``, you can suppress
  it on the command line using ``-b ""`` or ``--tag-build=""`` as an argument
  to the ``egg_info`` command.

``--tag-svn-revision, -r``
  If the current directory is a Subversion checkout (i.e. has a ``.svn``
  subdirectory, this appends a string of the form "-rNNNN" to the project's
  version string, where NNNN is the revision number of the most recent
  modification to the current directory, as obtained from the ``svn info``
  command.

  If the current directory is not a Subversion
 checkout, the command will
  look for a ``PKG-INFO`` file instead, and try to find the revision number
  from that, by looking for a "-rNNNN" string at the end of the version
  number. (This is so that building a package from a source distribution of

a Subversion snapshot will produce a binary with the correct version
number.)

If there is no ``PKG-INFO`` file, or the version number contained therein
does not end with ``-r`` and a number, then ``-r0`` is used.

``--no-svn-revision, -R``
Don't include the Subversion revision in the version number. This option
is included so you can override a default setting put in ``setup.cfg``.

``--tag-date, -d``
Add a date stamp of the form "-YYYYMMDD" (e.g. "-20050528") to the
project's version number.

``--no-date, -D``
Don't include a date stamp in the version number. This option is included
so you can override a default setting in ``setup.cfg``.

(Note: Because these options modify the version
number used for source and
binary distributions of your project, you should first make sure that you know
how the resulting version numbers will be interpreted by automated tools
like EasyInstall. See the section above on `Specifying Your Project's
Version`_ for an explanation of pre- and post-release tags, as well as tips on
how to choose and verify a versioning scheme for your your project.)

For advanced uses, there is one other option that can be set, to change the
location of the project's ``.egg-info`` directory. Commands that need to find
the project's source directory or metadata should get it from this setting:

Other ``egg_info`` Options

``--egg-base=SOURCEDIR, -e SOURCEDIR``
Specify the directory that should contain the .egg-info directory. This
should normally be the root of your project's source tree (which is not
necessarily the same as your project directory; some projects use a ``src``
or ``lib`` subdirectory as the source
root). You should not normally need
to specify this directory, as it is normally determined from the
``package_dir`` argument to the ``setup()`` function, if any. If there is
no ``package_dir`` set, this option defaults to the current directory.

``egg_info`` Examples

Creating a dated "nightly build" snapshot egg::

```
python setup.py egg_info --tag-date --tag-build=DEV bdist_egg
```

Creating and uploading a release with no version tags, even if some default
tags are specified in ``setup.cfg``::

```
python setup.py egg_info -RDb "" sdist bdist_egg register upload
```

(Notice that ``egg_info`` must always appear on the command line *before* any
commands that you want the version changes to apply to.)

.. _install command:

``install`` - Run ``easy_install`` or old-style installation
==

The setuptools ``install`` command is basically a shortcut to run the
``easy_install`` command on the current
project. However, for convenience
in creating "system packages" of setuptools-based projects, you can also
use this option:

``--single-version-externally-managed``
This boolean option tells the ``install`` command to perform an "old style"
installation, with the addition of an ``.egg-info`` directory so that the
installed project will still have its metadata available and operate
normally. If you use this option, you *must* also specify the ``--root``
or ``--record`` options (or both), because otherwise you will have no way
to identify and remove the installed files.

This option is automatically in effect when ``install`` is invoked by another
distutils command, so that commands like ``bdist_wininst`` and ``bdist_rpm``
will create system packages of eggs. It is also automatically in effect if
you specify the ``--root`` option.

``install_egg_info`` - Install an ``.egg-info`` directory in ``site-packages``
==

Setuptools
runs this command as part of ``install`` operations that use the
``--single-version-externally-managed`` options. You should not invoke it
directly; it is documented here for completeness and so that distutils
extensions such as system package builders can make use of it. This command
has only one option:

``--install-dir=DIR, -d DIR``
  The parent directory where the ``.egg-info`` directory will be placed.
  Defaults to the same as the ``--install-dir`` option specified for the
  ``install_lib`` command, which is usually the system ``site-packages``
  directory.

This command assumes that the ``egg_info`` command has been given valid options
via the command line or ``setup.cfg``, as it will invoke the ``egg_info``
command and use its options to locate the project's source ``.egg-info``
directory.

.. _rotate:

``rotate`` - Delete outdated distribution files
==

As you develop new versions
 of your project, your distribution (``dist``)
directory will gradually fill up with older source and/or binary distribution
files. The ``rotate`` command lets you automatically clean these up, keeping
only the N most-recently modified files matching a given pattern.

``--match=PATTERNLIST, -m PATTERNLIST``
  Comma-separated list of glob patterns to match. This option is *required*.
  The project name and ``-*`` is prepended to the supplied patterns, in order
  to match only distributions belonging to the current project (in case you
  have a shared distribution directory for multiple projects). Typically,
  you will use a glob pattern like ``.zip`` or ``.egg`` to match files of
  the specified type. Note that each supplied pattern is treated as a
  distinct group of files for purposes of selecting files to delete.

``--keep=COUNT, -k COUNT``
  Number of matching distributions to keep. For each group of files
  identified by a pattern specified with the ``--match``
 option, delete all
  but the COUNT most-recently-modified files in that group. This option is
  required.

``--dist-dir=DIR, -d DIR``
  Directory where the distributions are. This defaults to the value of the
  ``bdist`` command's ``--dist-dir`` option, which will usually be the
  project's ``dist`` subdirectory.

Example 1: Delete all .tar.gz files from the distribution directory, except
for the 3 most recently modified ones::

```
  setup.py rotate --match=.tar.gz --keep=3
```

Example 2: Delete all Python 2.3 or Python 2.4 eggs from the distribution directory, except the most recently modified one for each Python version::

```
  setup.py rotate --match=-py2.3*.egg,-py2.4*.egg --keep=1
```

.. _saveopts:

``saveopts`` - Save used options to a configuration file
==

Finding and editing ``distutils`` configuration files can be a pain, especially since you also have to translate the configuration options from command-line form
 to the proper configuration file format. You can avoid these hassles by using the ``saveopts`` command. Just add it to the command line to save the options you used. For example, this command builds the project using the ``mingw32`` C compiler, then saves the --compiler setting as the default for future builds (even those run implicitly by the ``install`` command)::

```
  setup.py build --compiler=mingw32 saveopts
```

The ``saveopts`` command saves all options for every command specified on the command line to the project's local ``setup.cfg`` file, unless you use one of the `configuration file options`_ to change where the options are saved. For example, this command does the same as above, but saves the compiler setting to the site-wide (global) distutils configuration::

```
  setup.py build --compiler=mingw32 saveopts -g
```

Note that it doesn't matter where you place the ``saveopts`` command on the command line; it will still save all the options specified for all commands. For
 example, this is another valid way to spell the last example::

```
  setup.py saveopts -g build --compiler=mingw32
```

Note, however, that all of the commands specified are always run, regardless of where ``saveopts`` is placed on the command line.

Configuration File Options

Normally, settings such as options and aliases are saved to the project's local ``setup.cfg`` file. But you can override this and save them to the

global or per-user configuration files, or to a manually-specified filename.

``--global-config, -g``
  Save settings to the global ``distutils.cfg`` file inside the ``distutils``
  package directory. You must have write access to that directory to use
  this option. You also can't combine this option with ``-u`` or ``-f``.

``--user-config, -u``
  Save settings to the current user's ``~/.pydistutils.cfg`` (POSIX) or
  ``$HOME/pydistutils.cfg`` (Windows) file. You can't combine this option
  with ``-g`` or ``-f``.

``--filename=FILENAME,
 -f FILENAME``
  Save settings to the specified configuration file to use. You can't
  combine this option with ``-g`` or ``-u``. Note that if you specify a
  non-standard filename, the ``distutils`` and ``setuptools`` will not
  use the file's contents. This option is mainly included for use in
  testing.

These options are used by other ``setuptools`` commands that modify
configuration files, such as the `alias`_ and `setopt`_ commands.

.. _setopt:

``setopt`` - Set a distutils or setuptools option in a config file
==

This command is mainly for use by scripts, but it can also be used as a quick
and dirty way to change a distutils configuration option without having to
remember what file the options are in and then open an editor.

Example 1. Set the default C compiler to ``mingw32`` (using long option
names)::

  setup.py setopt --command=build --option=compiler --set-value=mingw32

**Example
 2**. Remove any setting for the distutils default package
installation directory (short option names)::

  setup.py setopt -c install -o install_lib -r

Options for the ``setopt`` command:

``--command=COMMAND, -c COMMAND``

Command to set the option for. This option is required.

``--option=OPTION, -o OPTION``
The name of the option to set. This option is required.

``--set-value=VALUE, -s VALUE``
The value to set the option to. Not needed if ``-r`` or ``--remove`` is
set.

``--remove, -r``
Remove (unset) the option, instead of setting it.

In addition to the above options, you may use any of the `configuration file
options`_ (listed under the `saveopts`_ command, above) to determine which
distutils configuration file the option will be added to (or removed from).

.. _test:

``test`` - Build package and run a unittest suite
==========

When doing test-driven development, or running automated builds that need
testing
before they are deployed for downloading or use, it's often useful
to be able to run a project's unit tests without actually deploying the project
anywhere, even using the ``develop`` command. The ``test`` command runs a
project's unit tests without actually deploying it, by temporarily putting the
project's source on ``sys.path``, after first running ``build_ext -i`` and
``egg_info`` to ensure that any C extensions and project metadata are
up-to-date.

To use this command, your project's tests must be wrapped in a ``unittest``
test suite by either a function, a ``TestCase`` class or method, or a module
or package containing ``TestCase`` classes. If the named suite is a module,
and the module has an ``additional_tests()`` function, it is called and the
result (which must be a ``unittest.TestSuite``) is added to the tests to be
run. If the named suite is a package, any submodules and subpackages are
recursively added to the overall test suite. (Note: if your project specifies
a
``test_loader``, the rules for processing the chosen ``test_suite`` may
differ; see the `test_loader`_ documentation for more details.)

Note that many test systems including ``doctest`` support wrapping their
non-``unittest`` tests in ``TestSuite`` objects. So, if you are using a test
package that does not support this, we suggest you encourage its developers to
implement test suite support, as this is a convenient and standard way to
aggregate a collection of tests to be run under a common test harness.

By default, tests will be run in the "verbose" mode of the ``unittest``
package's text test runner, but you can get the "quiet" mode (just dots) if
you supply the ``-q`` or ``--quiet`` option, either as a global option to
the setup script (e.g. ``setup.py -q test``) or as an option for the ``test``
command itself (e.g. ``setup.py test -q``). There is one other option
available:

``--test-suite=NAME, -s NAME``
  Specify the test suite (or module, class, or method) to be run
  (e.g.
 ``some_module.test_suite``). The default for this option can be
  set by giving a ``test_suite`` argument to the ``setup()`` function, e.g.::

      setup(
          # ...
          test_suite = "my_package.tests.test_all"
)

  If you did not set a ``test_suite`` in your ``setup()`` call, and do not
  provide a ``--test-suite`` option, an error will occur.

.. _upload:

``upload`` - Upload source and/or egg distributions to PyPI
===

The ``upload`` command is implemented and `documented
<https://docs.python.org/3.1/distutils/uploading.html>`_
in distutils.

Setuptools augments the ``upload`` command with support
for `keyring <https://pypi.python.org/pypi/keyring>`_,
allowing the password to be stored in a secure
location and not in plaintext in the .pypirc file. To use
keyring, first install keyring and set the password for
the relevant repository, e.g.::

  python -m keyring set <repository> <username>
   Password for '<username>' in '<repository>': ********

Then, in .pypirc, set the repository configuration as normal,
but omit the password. Thereafter, uploads will use the
password from the keyring.

New in 20.1: Added keyring support.

.. _upload_docs:

``upload_docs`` - Upload package documentation to PyPI
==

PyPI now supports uploading project documentation to the dedicated URL
https://pythonhosted.org/<project>/.

The ``upload_docs`` command will create the necessary zip file out of a
documentation directory and will post to the repository.

Note that to upload the documentation of a project, the corresponding version
must already be registered with PyPI, using the distutils ``register``
command -- just like the ``upload`` command.

Assuming there is an ``Example`` project with documentation in the
subdirectory ``docs``, e.g.::

```
 Example/
|-- example.py
|-- setup.cfg
|-- setup.py
|-- docs
|   |-- build
|   |
`-- html
|   |   |   |-- index.html
|   |   |   `-- tips_tricks.html
|   |-- conf.py
|   |-- index.txt
|   `-- tips_tricks.txt
```

You can simply pass the documentation directory path to the ``upload_docs``
command::

```
  python setup.py upload_docs --upload-dir=docs/build/html
```

If no ``--upload-dir`` is given, ``upload_docs`` will attempt to run the
``build_sphinx`` command to generate uploadable documentation.
For the command to become available, `Sphinx <http://sphinx.pocoo.org/>`_
must be installed in the same environment as distribute.

As with other ``setuptools``-based commands, you can define useful
defaults in the ``setup.cfg`` of your Python project, e.g.:

.. code-block:: ini

```
  [upload_docs]
```

upload-dir = docs/build/html

The ``upload_docs`` command has the following options:

``--upload-dir``
  The directory to be uploaded to the repository.

``--show-response``
  Display the full response text from server; this is useful for debugging
  PyPI problems.

``--repository=URL,
-r URL``
  The URL of the repository to upload to. Defaults to
  https://pypi.python.org/pypi (i.e., the main PyPI installation).

Extending and Reusing Setuptools

Creating ``distutils`` Extensions
==========

It can be hard to add new commands or setup arguments to the distutils. But
the ``setuptools`` package makes it a bit easier, by allowing you to distribute
a distutils extension as a separate project, and then have projects that need
the extension just refer to it in their ``setup_requires`` argument.

With ``setuptools``, your distutils extension projects can hook in new
commands and ``setup()`` arguments just by defining "entry points". These
are mappings from command or argument names to a specification of where to
import a handler from. (See the section on `Dynamic Discovery of Services and
Plugins`_ above for some more background on entry points.)

Adding Commands

You
 can add new ``setup`` commands by defining entry points in the
``distutils.commands`` group. For example, if you wanted to add a ``foo``
command, you might add something like this to your distutils extension
project's setup script::

  setup(
      # ...
      entry_points = {

```
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
    },
)
```

(Assuming, of course, that the ``foo`` class in ``mypackage.some_module`` is a ``setuptools.Command`` subclass.)

Once a project containing such entry points has been activated on ``sys.path``, (e.g. by running "install" or "develop" with a site-packages installation directory) the command(s) will be available to any ``setuptools``-based setup scripts. It is not necessary to use the ``--command-packages`` option or to monkeypatch the ``distutils.command`` package to install your commands; ``setuptools`` automatically adds a wrapper to the distutils to search for entry
points in the active distributions on ``sys.path``. In fact, this is how setuptools' own commands are installed: the setuptools project's setup script defines entry points for them!

Adding ``setup()`` Arguments

Sometimes, your commands may need additional arguments to the ``setup()`` call. You can enable this by defining entry points in the ``distutils.setup_keywords`` group. For example, if you wanted a ``setup()`` argument called ``bar_baz``, you might add something like this to your distutils extension project's setup script::

```
setup(
    # ...
    entry_points = {
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
        "distutils.setup_keywords": [
            "bar_baz = mypackage.some_module:validate_bar_baz",
        ],
    },
)
```

The idea here is that the entry point defines a function that will be called to validate the ``setup()`` argument, if it's supplied. The ``Distribution`` object will have the initial value of the attribute set to ``None``, and the validation function will only be called if the ``setup()`` call sets it to a non-None value. Here's an example validation function::

```
  def assert_bool(dist, attr, value):
      """Verify that value is True, False, 0, or 1"""
      if bool(value) != value:
          raise DistutilsSetupError(
              "%r must be a boolean value (got %r)" % (attr,value)
          )
```

Your function should accept three arguments: the ``Distribution`` object,
the attribute name, and the attribute value. It should raise a
``DistutilsSetupError`` (from the ``distutils.errors`` module) if the argument
is invalid. Remember, your function will only be called with non-None values,
and the default value of arguments defined this way is always None. So, your
commands should always be prepared for the possibility that the attribute will
be ``None`` when they access it later.

If more than
 one active distribution defines an entry point for the same
``setup()`` argument, *all* of them will be called. This allows multiple
distutils extensions to define a common argument, as long as they agree on
what values of that argument are valid.

Also note that as with commands, it is not necessary to subclass or monkeypatch
the distutils ``Distribution`` class in order to add your arguments; it is
sufficient to define the entry points in your extension, as long as any setup
script using your extension lists your project in its ``setup_requires``
argument.

Adding new EGG-INFO Files

Some extensible applications or frameworks may want to allow third parties to
develop plugins with application or framework-specific metadata included in
the plugins' EGG-INFO directory, for easy access via the ``pkg_resources``
metadata API. The easiest way to allow this is to create a distutils extension
to be used from the plugin projects' setup scripts (via ``setup_requires``)
that
 defines a new setup keyword, and then uses that data to write an EGG-INFO
file when the ``egg_info`` command is run.

The ``egg_info`` command looks for extension points in an ``egg_info.writers``
group, and calls them to write the files. Here's a simple example of a
distutils extension defining a setup argument ``foo_bar``, which is a list of
lines that will be written to ``foo_bar.txt`` in the EGG-INFO directory of any
project that uses the argument::

```
  setup(
```

```
    # ...
    entry_points = {
        "distutils.setup_keywords": [
            "foo_bar = setuptools.dist:assert_string_list",
        ],
        "egg_info.writers": [
            "foo_bar.txt = setuptools.command.egg_info:write_arg",
        ],
    },
)
```

This simple example makes use of two utility functions defined by setuptools
for its own use: a routine to validate that a setup keyword is a sequence of
strings, and another one that looks up a setup argument and writes
 it to
a file. Here's what the writer utility looks like::

```
  def write_arg(cmd, basename, filename):
      argname = os.path.splitext(basename)[0]
      value = getattr(cmd.distribution, argname, None)
      if value is not None:
          value = '\n'.join(value)+'\n'
      cmd.write_or_delete_file(argname, filename, value)
```

As you can see, ``egg_info.writers`` entry points must be a function taking
three arguments: a ``egg_info`` command instance, the basename of the file to
write (e.g. ``foo_bar.txt``), and the actual full filename that should be
written to.

In general, writer functions should honor the command object's ``dry_run``
setting when writing files, and use the ``distutils.log`` object to do any
console output. The easiest way to conform to this requirement is to use
the ``cmd`` object's ``write_file()``, ``delete_file()``, and
``write_or_delete_file()`` methods exclusively for your file operations. See
those methods' docstrings for more details.

Adding
 Support for Revision Control Systems

If the files you want to include in the source distribution are tracked using
Git, Mercurial or SVN, you can use the following packages to achieve that:

- Git and Mercurial: `setuptools_scm <https://pypi.python.org/pypi/setuptools_scm>`_
- SVN: `setuptools_svn <https://pypi.python.org/pypi/setuptools_svn>`_

If you would like to create a plugin for ``setuptools`` to find files tracked

by another revision control system, you can do so by adding an entry point to
the ``setuptools.file_finders`` group. The entry point should be a function
accepting a single directory name, and should yield all the filenames within
that directory (and any subdirectories thereof) that are under revision
control.

For example, if you were going to create a plugin for a revision control system
called "foobar", you would write a function something like this:

.. code-block:: python

  def find_files_for_foobar(dirname):
      # loop to yield paths that start with `dirname`

And you would register it in a setup script using something like this::

  entry_points = {
     "setuptools.file_finders": [
        "foobar = my_foobar_module:find_files_for_foobar"
     ]
  }

Then, anyone who wants to use your plugin can simply install it, and their
local setuptools installation will be able to find the necessary files.

It is not necessary to distribute source control plugins with projects that
simply use the other source control system, or to specify the plugins in
``setup_requires``. When you create a source distribution with the ``sdist``
command, setuptools automatically records what files were found in the
``SOURCES.txt`` file. That way, recipients of source distributions don't need
to have revision control at all. However, if someone is working on a package
by checking out with that system, they will need the same plugin(s) that the
original author is using.

A few important points for
 writing revision control file finders:

* Your finder function MUST return relative paths, created by appending to the
 passed-in directory name. Absolute paths are NOT allowed, nor are relative
 paths that reference a parent directory of the passed-in directory.

* Your finder function MUST accept an empty string as the directory name,
 meaning the current directory. You MUST NOT convert this to a dot; just
 yield relative paths. So, yielding a subdirectory named ``some/dir`` under
 the current directory should NOT be rendered as ``./some/dir`` or
 ``/somewhere/some/dir``, but *always* as simply ``some/dir``

* Your finder function SHOULD NOT raise any errors, and SHOULD deal gracefully

with the absence of needed programs (i.e., ones belonging to the revision control system itself. It *may*, however, use ``distutils.log.warn()`` to inform the user of the missing program(s).

Subclassing ``Command``

Sorry, this section isn't written yet, and neither is a lot of what's below this point.

XXX

Reusing ``setuptools`` Code
==========

``ez_setup``

XXX

``setuptools.archive_util``

XXX

``setuptools.sandbox``

XXX

``setuptools.package_index``

XXX

Mailing List and Bug Tracker
==========

Please use the `distutils-sig mailing list`_ for questions and discussion about setuptools, and the `setuptools bug tracker`_ ONLY for issues you have confirmed via the list are actual bugs, and which you have reduced to a minimal

set of steps to reproduce.

.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/
.. _setuptools bug tracker: https://github.com/pypa/setuptools/

Found in path(s):
* /setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/docs/setuptools.txt
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1
Name: setuptools
Version: 20.10.1
Summary: Easily download, build, install, upgrade, and uninstall Python packages
Home-page: https://github.com/pypa/setuptools
Author: Python Packaging Authority
Author-email: distutils-sig@python.org
License: UNKNOWN
Description: ================================
Installing and Using Setuptools
================================

.. contents:: **Table of Contents**

`Change History <https://pythonhosted.org/setuptools/history.html>`_.

Installation Instructions

The recommended way to bootstrap setuptools on any system is to download
`ez_setup.py`_ and run it using the target Python environment. Different
operating systems have different recommended techniques to accomplish this
basic routine,
so below are some examples to get you started.

Setuptools requires Python 2.6 or later. To install setuptools
on Python 2.4 or Python 2.5, use the `bootstrap script for Setuptools 1.x
<https://raw.githubusercontent.com/pypa/setuptools/bootstrap-py24/ez_setup.py>`_.

The link provided to ez_setup.py is a bookmark to bootstrap script for the
latest known stable release.

.. _ez_setup.py: https://bootstrap.pypa.io/ez_setup.py

Windows (Powershell 3 or later)
================================

For best results, uninstall previous versions FIRST (see `Uninstalling`_).

Using Windows 8 (which includes PowerShell 3) or earlier versions of Windows
with PowerShell 3 installed, it's possible to install with one simple
Powershell command. Start up Powershell and paste this command::

    > (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content
| python -

You must start the Powershell with Administrative privileges or you may choose
to install a user-local installation::

    > (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | python - --user

If you have Python 3.3 or later, you can use the ``py`` command to install to
different Python versions. For example, to install to Python 3.3 if you have
Python 2.7 installed::

    > (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | py -3 -

The recommended way to install setuptools on Windows is to download
`ez_setup.py`_ and run it. The script will download the appropriate
distribution file and install it for you.

Once installation is complete, you will find an ``easy_install`` program in
your Python ``Scripts`` subdirectory. For simple invocation and best results,
add this
directory to your ``PATH`` environment variable, if it is not already
present. If you did a user-local install, the ``Scripts`` subdirectory is
``$env:APPDATA\Python\Scripts``.

Windows (simplified)
====================

For Windows without PowerShell 3 or for installation without a command-line,
download `ez_setup.py`_ using your preferred web browser or other technique
and "run" that file.

Unix (wget)
===========

Most Linux distributions come with wget.

Download `ez_setup.py`_ and run it using the target Python version. The script
will download the appropriate version and install it for you::

> wget https://bootstrap.pypa.io/ez_setup.py -O - | python

Note that you will may need to invoke the command with superuser privileges to
install to the system Python::

> wget
https://bootstrap.pypa.io/ez_setup.py -O - | sudo python

Alternatively, Setuptools may be installed to a user-local path::

> wget https://bootstrap.pypa.io/ez_setup.py -O - | python - --user

Note that on some older systems (noted on Debian 6 and CentOS 5 installations),
`wget` may refuse to download `ez_setup.py`, complaining that the certificate common name `*.c.ssl.fastly.net`
does not match the host name `bootstrap.pypa.io`. In addition, the `ez_setup.py` script may then encounter similar problems using
`wget` internally to download `setuptools-x.y.zip`, complaining that the certificate common name of `www.python.org` does not match the
host name `pypi.python.org`. Those are known issues, related to a bug in the older versions of `wget`
(see `Issue 59 <https://bitbucket.org/pypa/pypi/issue/59#comment-5881915>`_). If you happen to encounter them,
install Setuptools as follows::

> wget --no-check-certificate https://bootstrap.pypa.io/ez_setup.py
> python ez_setup.py --insecure

Unix including Mac OS X (curl)
==============================

If your system has curl installed, follow the ``wget`` instructions but
replace ``wget`` with ``curl`` and ``-O`` with ``-o``. For example::

> curl https://bootstrap.pypa.io/ez_setup.py -o - | python

Advanced Installation
=====================

For more advanced installation options, such as installing to custom
locations or prefixes, download and extract the source
tarball from `Setuptools on PyPI <https://pypi.python.org/pypi/setuptools>`_
and run setup.py with any supported distutils and Setuptools options.
For example::

setuptools-x.x$ python setup.py install --prefix=/opt/setuptools

Use ``--help``
to get a full options list, but we recommend consulting
the `EasyInstall manual`_ for detailed instructions, especially `the section
on custom installation locations`_.

.. _EasyInstall manual: https://pythonhosted.org/setuptools/EasyInstall
.. _the section on custom installation locations: https://pythonhosted.org/setuptools/EasyInstall#custom-installation-locations

Downloads
=========

All setuptools downloads can be found at `the project's home page in the Python
Package Index`_. Scroll to the very bottom of the page to find the links.

.. _the project's home page in the Python Package Index: https://pypi.python.org/pypi/setuptools

In addition to the PyPI downloads, the development version of ``setuptools``
is available from the `Bitbucket repo`_, and in-development versions of the
`0.6 branch`_ are available as well.

.. _Bitbucket repo: https://bitbucket.org/pypa/setuptools/get/default.tar.gz#egg=setuptools-dev
.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

Uninstalling
============

On Windows, if Setuptools was installed using an ``.exe`` or ``.msi``
installer, simply use the uninstall feature of "Add/Remove Programs" in the
Control Panel.

Otherwise, to uninstall Setuptools or Distribute, regardless of the Python
version, delete all ``setuptools*`` and ``distribute*`` files and
directories from your system's ``site-packages`` directory
(and any other ``sys.path`` directories) FIRST.

If you are upgrading or otherwise plan to re-install Setuptools or Distribute,
nothing further needs to be done. If you want to completely remove Setuptools,
you may also want to remove the 'easy_install' and 'easy_install-x.x'
scripts
and associated executables installed to the Python scripts directory.

Using Setuptools and EasyInstall

Here are some of the available manuals, tutorials, and other resources for
learning about Setuptools, Python Eggs, and EasyInstall:

* `The EasyInstall user's guide and reference manual`_
* `The setuptools Developer's Guide`_
* `The pkg_resources API reference`_
* `The Internal Structure of Python Eggs`_

Questions, comments, and bug reports should be directed to the `distutils-sig
mailing list`_. If you have written (or know of) any tutorials, documentation,
plug-ins, or other resources for setuptools users, please let us know about
them there, so this reference list can be updated. If you have working,
tested patches to correct problems or add features,
you may submit them to
the `setuptools bug tracker`_.

.. _setuptools bug tracker: https://github.com/pypa/setuptools/issues
.. _The Internal Structure of Python Eggs: https://pythonhosted.org/setuptools/formats.html
.. _The setuptools Developer's Guide: https://pythonhosted.org/setuptools/setuptools.html
.. _The pkg_resources API reference: https://pythonhosted.org/setuptools/pkg_resources.html
.. _The EasyInstall user's guide and reference manual: https://pythonhosted.org/setuptools/easy_install.html
.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/

Credits
---

* The original design for the ``.egg`` format and the ``pkg_resources`` API was
  co-created by Phillip Eby and Bob Ippolito. Bob also implemented the first
  version of ``pkg_resources``, and supplied the OS X operating system version
  compatibility
algorithm.

* Ian Bicking implemented many early "creature comfort" features of
  easy_install, including support for downloading via Sourceforge and
  Subversion repositories. Ian's comments on the Web-SIG about WSGI
  application deployment also inspired the concept of "entry points" in eggs,
  and he has given talks at PyCon and elsewhere to inform and educate the
  community about eggs and setuptools.

* Jim Fulton contributed time and effort to build automated tests of various
  aspects of ``easy_install``, and supplied the doctests for the command-line
  ``.exe`` wrappers on Windows.

* Phillip J. Eby is the seminal author of setuptools, and
  first proposed the idea of an importable binary distribution format for
  Python application plug-ins.

* Significant parts of the implementation of setuptools were funded by the Open

Source Applications Foundation, to provide a plug-in infrastructure for the
Chandler PIM application. In addition, many OSAF staffers (such as Mike
"Code Bear" Taylor) contributed their time and stress as guinea pigs for the
use of eggs and setuptools, even before eggs were "cool". (Thanks, guys!)

* Tarek Ziadé is the principal author of the Distribute fork, which
re-invigorated the community on the project, encouraged renewed innovation,
and addressed many defects.

* Since the merge with Distribute, Jason R. Coombs is the
maintainer of setuptools. The project is maintained in coordination with
the Python Packaging Authority (PyPA) and the larger Python community.

.. _files:

Code of Conduct

Everyone interacting in the setuptools project's codebases, issue trackers,

chat rooms, and mailing lists is expected to follow the
`PyPA Code of Conduct`_.

.. _PyPA Code of Conduct: https://www.pypa.io/en/latest/code-of-conduct/

Keywords: CPAN PyPI distutils eggs package management
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: MIT License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: System :: Archiving :: Packaging
Classifier: Topic :: System :: Systems Administration
Classifier: Topic :: Utilities

Found in path(s):

* /setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/PKG-INFO
*
/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/setuptools.egg-info/PKG-INFO
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/setup.py

1.463 libjitterentropy 3.4.1

1.463.1 Available under license :

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1.464 python-pip 19.0.3

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

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

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

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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
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2.3.4	2.3.3	2004	PSF	yes
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2.6.2	2.6.1	2009	PSF	yes
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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
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1.465 pcre 8.41

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Finally, software

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

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

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

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

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

Although the Lesser General Public License is Less protective of the

users' freedom, it does ensure that the user of a program that is
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The precise terms and conditions for copying, distribution and
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be combined with the library in order
to run.

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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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in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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

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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

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

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

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

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

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

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

a) Accompany

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

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

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

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

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

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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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Version 3, 29 June 2007

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

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

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

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"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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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.

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The basic library functions are written in C and are freestanding. Also

included in the distribution is a set of C++ wrapper functions, and a
just-in-time compiler that can be used to optimize pattern matching. These
are both optional features that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS

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1.470 sysv-init 2.93-8

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1.471 simplejson 2.2.1

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1.472 python 3.5.2

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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
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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
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2.0	1.6	2000	BeOpen.com	no
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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      888       8   888ooo88P'      `8888'
      888       8   888            .8PY888.
      `88.    .8'   888          d8'  `888b
        `YbodP'     o888o        o888o  o88888o


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         http://wildsau.idv.uni-linz.ac.at/mfx/upx.html
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****

---
include/GL/gl.h :

Mesa 3-D
graphics library

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include/GL/glxext.h
include/GL/wglxext.h :

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<one line to give the program's name and a brief idea of what it does.>
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 <signature of Ty Coon>, 1 April 1989
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That's all there is to it!

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1.478 gawk 4.1.1

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file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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1.479 sudo 1.9.6p1

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1.483 golang 1.20.13

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1.488 zlib 1.2.5

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.5, April 19th, 2010

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The data format used by the zlib library is described by RFCs (Request for

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(zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
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1.489 ecdsa 0.11

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1.497 go-runewidth 0.0.14

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1.504 iniparse 0.3.2

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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 (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
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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
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2.3	2.2.2	2002-2003	PSF	yes
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Thanks to the many outside volunteers who have worked under Guido's
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1.506 pciutils 3.2.1

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* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/PrintConversionEvent.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/JAXBIntrospector.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlTransient.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlEnumValue.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/adapters/HexBinaryAdapter.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlID.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlElementRefs.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/ParseConversionEvent.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/adapters/NormalizedStringAdapter.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlElementDecl.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/adapters/XmlJavaTypeAdapter.java
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/jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlValue.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/JAXBElement.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlType.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlRootElement.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlIDREF.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlSchema.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlElementRef.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlEnum.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlRegistry.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlNsForm.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/adapters/XmlAdapter.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/adapters/CollapsedStringAdapter.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/PropertyException.java
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/jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlElement.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/adapters/XmlJavaTypeAdapters.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlAttribute.java
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* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/Binder.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlAnyAttribute.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlInlineBinaryData.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/W3CDomHandler.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlSchemaType.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlAccessorType.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/SchemaOutputResolver.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlSchemaTypes.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/attachment/AttachmentUnmarshaller.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlAnyElement.java

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/jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlAttachmentRef.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlAccessOrder.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlList.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlAccessType.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlMixed.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/attachment/AttachmentMarshaller.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlMimeType.java
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* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/UnmarshallerHandler.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/JAXBContext.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/helpers/ParseConversionEventImpl.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/helpers/PrintConversionEventImpl.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/util/JAXBSource.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/util/Messages.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/util/ValidationEventCollector.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/ContextFinder.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/Messages.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/util/JAXBResult.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/UnmarshalException.java
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/jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/ValidationException.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/DatatypeConverterInterface.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/helpers/AbstractUnmarshallerImpl.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/helpers/AbstractMarshallerImpl.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/MarshalException.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/TypeConstraintException.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/Element.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/Unmarshaller.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/ValidationEvent.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/helpers/NotIdentifiableEventImpl.java
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* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/DatatypeConverter.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/helpers/Messages.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/helpers/ValidationEventImpl.java
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/jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/ValidationEventHandler.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/Marshaller.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/ValidationEventLocator.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/Validator.java
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Manifest-Version: 1.0
Bundle-Description: istack common utility code
Implementation-Title: istack common utility code runtime
Bundle-License: https://glassfish.java.net/public/CDDL+GPL_1_1.html, h
ttps://glassfish.java.net/public/CDDL+GPL_1_1.html
Bundle-SymbolicName: com.sun.istack.commons-runtime
Implementation-Version: 3.0.5
Built-By: build
Bnd-LastModified: 1486772850426
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: com.sun.istack
Bundle-DocURL: http://www.oracle.com/
Bundle-Vendor: Oracle Corporation
Import-Package: javax.activation,javax.xml.namespace,javax.xml.stream,
org.xml.sax,org.xml.sax.helpers
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.2.0.201605172007
Implementation-Vendor: Oracle Corporation
Export-Package: com.sun.istack;uses:="javax.activation,javax.xml.strea
m,org.xml.sax,org.xml.sax.helpers";version="3.0.5",com.sun.istack.log
ging;version="3.0.5",com.sun.istack.localization;version="3.0.5"
Bundle-Name:
istack common utility code runtime
Bundle-Version: 3.0.5
Implementation-Build-Id: tags/istack-commons-3.0.5-321, 2017-02-11T01:
27:24+0100
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_112

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1.519 logrus 1.9.3

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1.520 servlet-api 4.0.0

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*/

Found in path(s):
* /servlet-api-4-0-0-sources-8-jar/org/xipki/http/servlet/TlsHelper.java
* /servlet-api-4-0-0-sources-8-jar/org/xipki/http/servlet/ServletURI.java
* /servlet-api-4-0-0-sources-8-jar/org/xipki/http/servlet/ServletURIPool.java
* /servlet-api-4-0-0-sources-8-jar/org/xipki/http/servlet/SimpleLruCache.java
* /servlet-api-4-0-0-sources-8-jar/org/xipki/http/servlet/HttpServlet.java
*
 /servlet-api-4-0-0-sources-8-jar/org/xipki/http/servlet/AbstractHttpServlet.java
* /servlet-api-4-0-0-sources-8-jar/org/xipki/http/servlet/package-info.java
* /servlet-api-4-0-0-sources-8-jar/org/xipki/http/servlet/SslReverseProxyMode.java
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Found in path(s):
* /servlet-api-4-0-0-sources-8-jar/META-INF/maven/org.xipki/servlet-api/pom.xml

1.521 netns 0.0.4

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